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United States Patent and Trademark Office

March 11, 2005

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Additional inventors are being named on the separately numbered sheets attached hereto .								
	TITLE OF THE INVENTION (500 characters max)							
System, Method, and Apparatus to Separate Dose and Focus Based on Scatterometry Data								
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	Application Data Sheet. See 37 CFR 1.76 METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT							
Applicant claims small e				FEIGATION FO	KFAILNI		ING FEE	
A check or money order is enclosed to cover the filing fees AMOUNT (\$)								
The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 033975								
Payment by credit card. Form PTO-2038 is attached. The invention was made by an agency of the United States Government or under a contract with an agency of the								
United States Government. X No.								
Yes, the name of the U.S. Government agency and the Government contract number are:								
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TYPED of PRINTED NAME Kerry Hartman					<i>appropriate)</i> cket Number:		081468-03	08434

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S.D Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

*Color figures integrated with text.

Attorney Docket No. 081468-0308434 Client Reference: P-1823.000-US **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hans van der Laan

Application No.:

NEW

Confirmation No:

Filed:

February 23, 2004

Group No.: Examiner

For:

System, Method, and Apparatus to Separate Dose and Focus Based on Scatterometry Data

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

APPLICATION DATA SHEET 37 C.F.R. § 1.76

BIBLIOGRAPHIC DATA

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3. Application information

Title of Invention: System, Method, and Apparatus to Separate Dose and Focus Based on Scatterometry Data

Docket number assigned to this application: 081468-0308434

Suggested Classification:

Class: Subclass:

Technology Center to which subject matter is assigned:

Total number of drawing sheets: 0 (color figures integrated with text)

Type of application: Provisional

Secrecy order under § 5.2: This application does not disclose subject matter of an application which is under a secrecy order pursuant to § 5.2.

Application Date Sheet--page 1 of 2

4. Representative information

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Extent of interest of assignee in application: Entire right, title and interest.

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Provisional U.S. Patent Application: SYSTEM, METHOD, AND APPARATUS TO SEPARATE DOSE AND FOCUS BASED ON SCATTEROMETRY DATA Summary

A scatterometry method is described which can separate focus and dose errors made during exposure. The focus data is correlated to other techniques. A method according to one embodiment of the invention, based on Principal Component Regression, comprises two steps:

1. A calibration FEM is exposed, readout by the scatterometer, and the measurement results are used to build a model of focus/dose vs. spectra. This model is directly based on the scatterometry spectra. Potential advantages may include that no knowledge of optical properties of materials is required and that complex and time consuming building of libraries can be skipped.

2. The to-be-measured-wafers are read-out. Using the model, the recorded spectra are translated into focus and dose values. The calculation only takes a few seconds per wafer (1000 points).

The scatterometer can measure gratings in the scribe lane or directly structures in the chip, making the technique suitable for on-product monitoring and calibration. The accuracy (including repro) is better than 25nm (3 σ) per single field point, which is comparable to that of FOCAL. Correlating scatterometry results with LVT (PreFoc) and Wafer map MA data concludes this. As an example, with this accuracy, Ry determination is better than 0.2 μ rad (3 σ) when using 75 measurement points.

Introduction

There are many techniques for focus calibration using test wafers: FOCAL, LQT (reticle with small prisms), phase shift focus monitor,..... They require a special mask, a special illumination setting or a focus meander for each measurement, disqualifying them for measurements on product wafers.

For focus measurements on product wafers, either on marks in the scribe lane or directly within the chip, only few techniques exist which are not very mature. A currently used technique is the measurement of Line-End-Shortening of test targets in the scribe lane, e.g. KLA MPX. This technique, however, does not contain information on the sign of focus and is therefore only suited for monitoring and not for correcting focus.

This memo shows how scatterometry can be used to measure focus. Two strong points for scatterometry are:

- There are no special requirements on mask type and/or illumination mode, i.e. it is directly suited for measurement of product wafers.
- The raw output of the scatterometer HW is one or more fine-structured spectra, the shape of
 which varies strongly with the line width and shape of the measured feature. This implies that the
 information content of scatterometry spectra is enormous. The expectation is that also focus
 information is present; the challenge is how to retrieve it.

The presented scatterometry technique is based on direct evaluation of spectra, by comparing them to spectra measured on a calibration FEM. This technique may reduce or eliminate standard scatterometry drawbacks like the need for forehand knowledge of optical properties of materials and the complex and time-consuming building of libraries. Furthermore, the technique is not limited to the standard 1D-structures, but also allows measurement of 2D-structures and even directly on product.

Further embodiments include taking into account dependencies on resist type and/or scatterometer type (polarized reflectometer, un-polarized reflectometer, or ellipsometer).

In principle, all focus applications are possible:

- · Focus calibration using test wafer
- Focus monitoring on product wafers (both scribe-lane and within chip)
- Focus calibration on product wafers (both scribe-lane and within chip)

A method according to an embodiment of the invention

The method includes a calibration step followed by measurement of product wafers. In the calibration step a FEM is exposed and the corresponding scatterometry spectra are measured. The second step is recording the scatterometry spectra for the product wafers. It may be desirable or necessary that both calibration and product measurements are performed for the identical structure and process conditions.

Ai	PLICATION UNDER UNITED STAT	ES PATENT LAWS
.tty. Dkt. No.	308434	
nvention:	System, Method, and Apparatus to Separate Dose a	nd Focus Based on Scatterometry Data
nventor (s):	Hans van der Laan	
		Address communications to the correspondence address associated with our Customer No 00909 Pillsbury Winthrop LLP
		This is a:
		Provisional Application
		Regular Utility Application
	. 🗖	Continuing Application The contents of the parent are incorporated by reference
		PCT National Phase Application
		Design Application
		Reissue Application
		Plant Application
		Substitute Specification Sub. Spec Filed in App. No. /
		Marked up Specification re Sub. Spec. filed In App. No /
	SPECIFICATION	

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The principle of this calibration is explained by Figure 1. It displays spectra belonging to the calibration FEM (left) and a spectrum originating from the product wafer (right). Most straightforward way-of-working would be searching for the best match between a product wafer spectrum and one of the spectra in the FEM-set. From the best match, the focus and dose values can be derived.

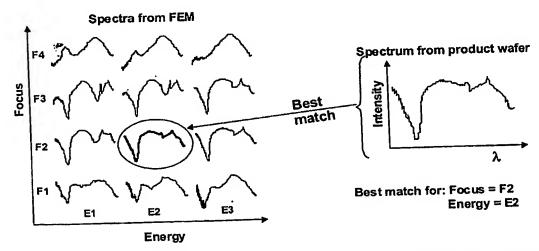


Figure 1 Spectra belonging to calibration FEM (left) and a spectrum originating from the product wafer (right). Finding the best match between spectra gives the focus and dose values.

For our analysis, however, we used a more sophisticated algorithm: Principal Component Regression (PCR). The principle is that each spectrum can be described by a sum of basic spectra or principal components (similar to Fourier analysis where each signal can be split up in its Fourier components). There are two advantages with respect to the straightforward method: 1. Smoothing of the noise in the calibration step (by limiting the number of principle components) and 2. Avoiding the discretization of the determined focus and dose values by using a regression technique (i.e. fit).

Experimental

Experiments were performed within the project "Correlation (de)focus vs. CDU".

AT:850, M8868, NA=0.8, σ=0.85/0.55			
Full wafer exposures on four special MEMC wafers (A,B,C,D), deliberately made unflat.			
In this memo, only data from wafers C and D have been analysed			
21x21 FEM: focus range –300 → 300nm, step 30nm dose range 22 → 32 mJ/cm², step 0.5 mJ/cm² To avoid processing influences, a mini FEM was exposed. Position on wafer: x = 60 → 90mm, y = -25 → 25mm			
A section of 13x9 is used in the calibration step focus: -300 → 60nm, dose: 26 → 32 mJ/cm ²			
Measurements in same run as the LVT exposures			
Focus offset of –90nm to match scatterometry measurements			
LVT exposures on the four MEMC wafers. After read-out, wafers were stripped and re-coated for the CDU exposures.			
Focus offset of –125nm to match scatterometry measurements			
Exposed with Focus offset: -110nm Dose: 27.4mJ/cm ²			
Standard CDU layout, field size 26x33mm			
CDU exposures on same chuck as LVT exposures			
Exposures on the four MEMC-wafers			
DUV42 (60nm) + PEK500 (330nm) + Aquatar6 (52nm), i.e. standard AT850 qualification process			
ELM-SCAT-110, 455.6311.1i001			
MA, 7×61 , $X = \pm 10.2$ mm, $Y = \pm 15.2$ mm LVT, 9×7 , $X = \pm 12.7$ mm, $Y = \pm 16.2$ mm			
Scat, 7×5 , $X = \pm 12.4$ mm, $Y = \pm 15.4$ mm			
110nm isolated line (pitch 1;6, binary mask)			
KLA-Tencor SpectraCD. Oblique incidence			

Figure 2 is a wafer map of the MEMC-C wafer measured by the Level Sensor. A number of 'holes', with a depth up to $0.5\mu m$, is visible. The area within the rectangle has been measured by scatterometry. The flatness of the other 3 wafers is similar but with the 'holes' at different locations.

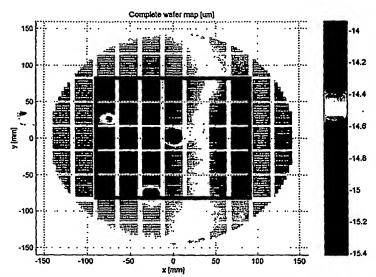


Figure 2 Wafer map for MEMC_C. The area within the box has been measured by scatterometry.

Results

As described in the section 'method', the spectra coming from the FEM wafer may be used to build the model. In this example, not all 21x21 spectra are used, but a subset containing 13 focus steps and 9 dose steps. Also in this example, the focus range chosen to be symmetrical around Best Focus, and the dose range is chosen to cover the expected dose variation.

One set of measures for the quality of the created model are the residue in focus and dose between the values set by the FEM and those given by the model. The residue for focus is 7nm (3 σ) and for dose 0.15% (3 σ).

Applying this model to the spectra from MEMC-C wafer results in the focus and dose distribution shown in Figure 3. The white spaces indicate missing data points¹. The focus errors over a large part of the wafer are small. Near the 'holes', second order focus errors across the field are seen, which the leveling system may not be able to correct.

The fields without 'holes' can be used to determine the intra-field fingerprint. The intra-field focus fingerprint should correlate with the focal plane, e.g. measured by FOCAL. For dose, the intra-field variation should correlate to the sum of dose uniformity and reticle fingerprint (in a later stage we will look at these intra-field correlations).

Furthermore, note that the inter-field dose fingerprint clearly shows across wafer gradient with dose increasing towards (+X,-Y).

¹ In these case the model could not determine the focus and dose values belonging to the spectrum, since the values were outside the calibration range

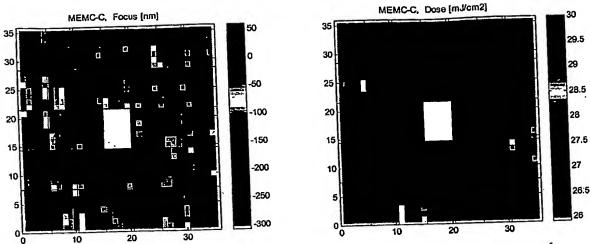


Figure 3 Full wafer Focus and Dose measurements by scatterometry on MEMC_C (area on wafer given by rectangle in Figure 2). The center field has been exposed differently and was therefore not read-out. The white squares indicate missing data points.

To verify the accuracy of the scatterometry results, correlation to other well-established methods was considered. For focus this will be discussed below, while for dose no reference technique was available and will be neglected in the remainder of this memo. Figure 4 shows focus errors, determined from the Wafer Map moving average values, MA (left) and scatterometry (right). The scatterometry data has been interpolated to the MA measurement grid for sake of comparison. A good correlation is seen.

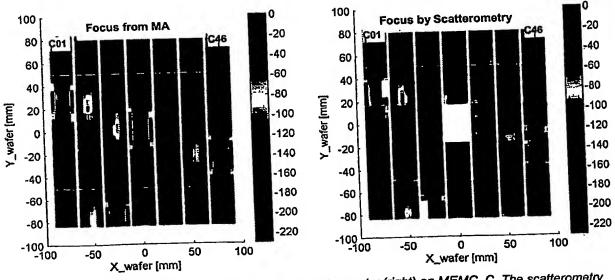
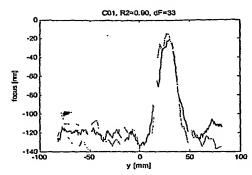


Figure 4 Focus measurements by MA (left) and scatterometry (right) on MEMC_C. The scatterometry data has been interpolated to the MA measurement grid.

Figure 5 compares two columns of the focus data obtained by MA and scatterometry as indicated in Figure 4. On the left, a typical example with a 3σ focus difference of 33nm. On the right, a better than typical example with a 3σ focus difference of 19nm. For both cases the correlation is very good, R²≥0.90. The figure also shows that there is a systematic intra-field difference between both techniques. The MA-values are always higher than the scatterometry values at the edge of the field. A difference can be expected since the lens and reticle contribution to focus may be present only in the scatterometry data.



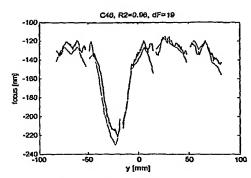
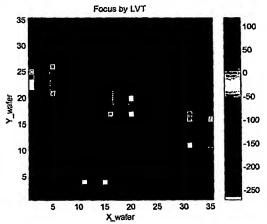


Figure 5 Focus measurements by MA (black trace) and scatterometry (red trace) for two columns of Figure 4, (MEMC_C). On the left, a typical example with a 3σ focus difference of 33nm (column 1). On the right, a good example with a 3σ focus difference of 19nm. For both cases the correlation is very good, $\mathbb{R}^2 \ge 0.90$.

In Figure 6 the scatterometry data is compared to the next technique called Leveling Verification Test (LVT, on the PAS LQT). This test uses a distortion like reticle with a large number of small prisms, each glued above an alignment mark. The principle is that focus errors are translated into overlay errors. The LVT-data has been interpolated to the scatterometry measurement grid. Also here a good correlation is seen.



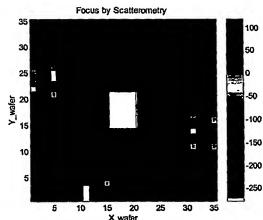
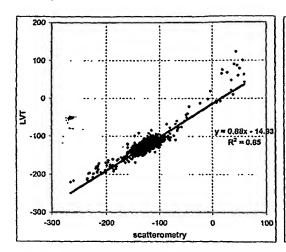


Figure 6 Focus measurements by LVT (left) and scatterometry (right) on MEMC_C. The LVT data has been interpolated to the scatterometry measurement grid.

Figure 7 shows the correlation plots of scatterometry with LVT and scatterometry with MA. The intrafield differences between both techniques have been removed, since they are different for each technique. The plots show a slope slightly below 1 (scatterometry measures a slightly larger focus variation) and a good correlation, R²>0.8.

For the large positive values in the LVT graph, larger deviations are found. Possibly these points are so far out-of-focus (BF is at -110nm) that the process is not very reproducible for 110nm isolated line imaging.

Note that the focus range for the Scatterometry – LVT correlation plot is larger than that for Scatterometry – MA. The reason is that the maximum X-field position is 10.2mm for MA compared to 12.4mm for Scatterometry, and the largest focus errors are found at the field edge.



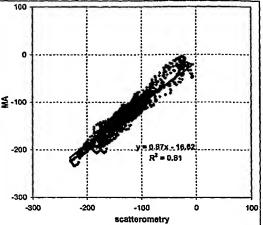


Figure 7 Correlation plot displaying the correlation Scatterometry-LVT and Scatterometry-MA for MEMC_C.

Table 1 summarizes the correlation results. It gives the differences in focus measured by LVT and scatterometry for two wafers and two types of scatterometry spectra $(\alpha/\beta)^2$. The correlation results are very similar for both wafers and do not depend strongly on the type of spectrum used. The correlation, expressed in 3σ -focus difference, seems to be better for MA. One should realize, however, that the focus range for the Scat/LVT correlation is larger than for MA (caused by the difference in measurement grid)

The upper limit for the scatterometry accuracy is given by the focus difference between the two best matching techniques (Scat. and MA). The real accuracy will be better since MA also has a certain inaccuracy and the wafer has been recoated in between the two measurements. The conclusion is that the accuracy (incl. repro) is better than 25nm (3 σ)

	MA			LVT		
	dF [nm 3σ]	slope	R ²	dF [nm 3σ]	slope	R ²
MEMC_C, α	26	0.87	0.81	36	0.88	0.85
β	25	0.93	0.77	36	0.87	0.76
MEMC_D, α	31	0.81	0.71	37	0.81	0.81
β	27	0.90	0.73	36	0.81	0.74
Average	27	0.88	0.75	36	0.85	0.79

Table 1 Focus differences between Scatterometry - MA (left) and Scatterometry - LVT (right). Correlation is presented as the 3σ -focus deviation between both techniques, and the regression slope and correlation coefficient R^2 .

A clue on the repro is given by Table 2. It shows the difference in focus is determined with either one of the spectra types. These values can be considered as a lower value for the repro. In the future, comparisons of focus measured with H and V will be done.

Focus difference between α- and β- spectra [nm]				
30	mean			

The KLA scatterometer is based on a ellipsometer, which simultaneously measures two polarization directions, resulting in two spectra, called α and β . All results up to now, however, have been only based on the α -specra.

MEMC_C	14	4.1
MEMC_D	_ 12	5.4

Table 2 Differences in focus determined with either one of the two scatterometry spectrum types (α or β). This intrinsic comparison shows a very good match.

Use of the Scatterometry Focus Technique

Figure 8 (left) shows the residuals from the LVT/Scat correlation for MEMC_C of Figure 7. On the right, a similar plot for MEMC_D. A patch like structure is seen, indicating that not all fields are exposed with exactly the same focus value. Differences up to 20nm are seen.

Another example is the determination of image tilt Ry. With a single point accuracy of 25nm (3 σ), Ry determination is better than 0.2 μ rad (3 σ) when using 75 measurement points.

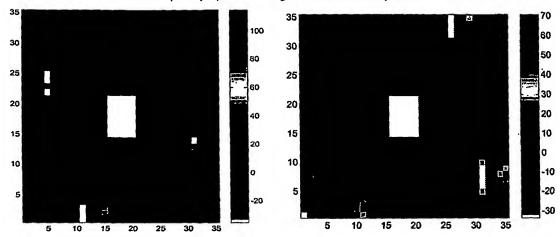


Figure 8 (Left) Residuals from the left part of Figure 7 plotted as function of wafer coordinates, data from MEMC_C. On the right, a similar plot for MEMC_D. The plot clearly shows that the focus differences between the LVT and scatterometry exposure varies from field to field.

Attachments

- (1) "Title of the Development," 2 pages with integrated color figures.
- (2) "Focus measurements with scatterometry," 22 pages with integrated color figures.
- (3) Spreadsheet referenced on page 8 of attachment (2), 10 pages.

Claims

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- 1. Method of determining parameters related to a lithographic apparatus comprising:
 - using a scatterometer to measure calibration spectra on a calibration focus-energy matrix (FEM);
- using a scatterometer to measure a spectrum of at least one diffractive structure of a substrate; and
 - analyzing the measured spectrum of the at least one diffractive structure; wherein said analyzing of the measured spectrum includes comparing the calibration spectra and the measured spectrum of the at least one diffractive structure.
 - 2. The method according to claim 1, wherein said analyzing includes deriving parameters to be determined by employing a regression technique.
- 3. The method according to any of claims 1 and 2, wherein said analyzing includes applying a mathematical model which compares the calibration spectra on the calibration FEM with the measured spectrum on said substrate and derives the parameters to be determined by employing a regression technique.
- 4. A method according to claim 3, wherein said parameters to be determined at leastinclude focus and dose.
 - 5. A method according to any of claims 2-4, wherein the regression technique used by the mathematical model is principal component regression (PCR).
- 30 6. A method according to any of claims 1-5, wherein the substrate comprises a test wafer.

- 7. A method according to any of claims 1-6, wherein the substrate comprises a product wafer.
- 8. A method according to any of claims 1-7, wherein the at least one diffractive
 5 structure is either positioned within the chip or in the scribe-lane.
 - 9. A method of determining parameters, said method comprising:
 - using a scatterometer to measure calibration spectra on a calibration focus-energy matrix (FEM);
- using a scatterometer to measure a spectrum of at least one diffractive structure of a substrate; and

based on the calibration spectra and the measured spectrum of the at least one diffractive structure, obtaining values of parameters relating to a lithographic exposure procedure.

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- 10. The method according to claim 9, wherein said obtaining includes deriving parameters to be determined by employing a regression technique.
- 11. The method according to any of claims 9-10, wherein said obtaining includes applying a mathematical model which compares the calibration spectra on the calibration FEM with the measured spectrum on said substrate and derives the parameters to be determined by employing a regression technique.
- 12. A method according to any of claims 10-11, wherein the regression technique used by the mathematical model is principal component regression (PCR).
 - 13. A method according to any of claims 9–12, wherein said obtaining includes performing a principal component analysis on at least a portion of the calibration spectra.

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14. A method according to claim 13, wherein said obtaining includes constructing a model based on said principal component analysis.

- 15. A method according to any of claims 9-14, wherein said obtaining includes constructing a model based on at least a portion of the calibration spectra.
- 16. A method according to any of claims 9-15, wherein said parameters to be determined at least include focus and dose.
 - 17. A method according to any of claims 9-16, wherein the substrate comprises a test wafer.
- 18. A method according to any of claims 9-17, wherein the substrate comprises a product wafer.
 - 19. A method according to any of claims 9-18, wherein the at least one diffractive structure is either positioned within the chip or in the scribe-lane.
 - 20. An apparatus configured to perform a method according to any of claims 1-19, wherein the apparatus comprises:

an illumination system for providing a beam of radiation;

- a support structure for supporting a patterning structure configured to impart the beam with a pattern in its cross-section;
- a substrate table for holding the substrate; and
- a projection system for projecting the patterned beam onto a target portion of the substrate.

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Title of the Development

Method to separate dose and focus based on scatterometry spectra

State of the Art

Phase shift focus monitor can determine defocus (but not dose)

Line-end-shortening can be used to monitor defocus. The sign of defocus, however, cannot be retrieved.

Problems of the Art

It is very difficult to discriminate between dose and focus when measuring CD variations. In general, special or multiple features are needed in combination with special or time consuming metrology (see above). Especially, determining the sign of defocus is difficult.

Short Description of a method according to an embodiment of the invention

Calculates dose and focus using scatterometry spectra and principal component analysis (PCA)

- 1. Calibration of a focus dose model using scatterometry spectra from an experimental FEM
- 2. Predict dose and focus using scatterometry spectra as input for this model.

PCA is used to extract the relevant information from the spectra and thereby reducing noise in experimental data. By compacting the data, better calibration models can be build.

Repro (3σ): ΔF=30nm, ΔE=0.9% (based on comparing results obtained with H and V-iso lines exposures on an AT:1100 lithographic machine)

Potential Merits of the Development

Direct determination of scanner correctables instead of using the intermediate step of CD. No RCWA* needed:

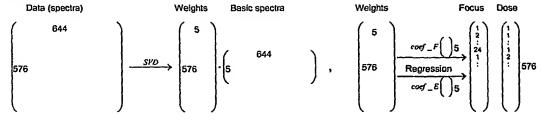
- at least some embodiments of the invention may be practiced without forehand knowledge of optical properties of materials
- 2. fast and simple prediction algorithm
- Works, in principle, on all structures: 1D (standard for scatterometry), 2D, but also directly on-product
- * Rigorous Coupled Wave Analysis: complex algorithm to calculate spectra based on a theoretical resist grating and process stack. To extract grating parameters from the spectra, it may be desirable or necessary to solve the inverse problem.

Further Description of the Development

Principal Component Analysis (PCA) can be applied to obtain the basic spectra describing the complete series of spectra. These basic spectra are called the principal components. In one example analysis as shown below, a scatterometry spectrum that consists of 644 points could be reduced to 5 basic spectra. These 5 basic spectra are linear combinations of the 644 points. The basic spectra are used to calibrate a model with dose and focus.

This model can than be used to predict dose and focus, based on new spectra.

Calibration



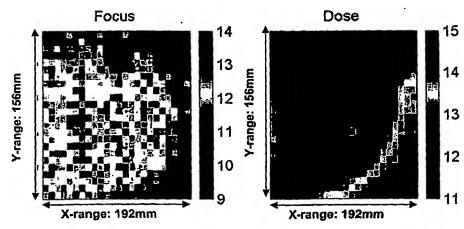
Verification and use

Data (spectra) (Basic spectra)^T Weights Focus & Dose $\begin{pmatrix}
5 \\
644
\end{pmatrix} = \begin{pmatrix}
5 \\
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644
\end{pmatrix} = \begin{pmatrix}
5
\end{pmatrix} \xrightarrow{coef_F()5} F = \dots \\
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coef_E()5
\end{pmatrix}$

Examples of experimental results

On AT:1100 (M3031) 576 fields are exposed at Best Focus and Best Energy, covering an area of 192 x 156 mm² on the wafer. Small fields, in the order of mm's, are used. For one position per field the scatterometer records a spectrum, which is used as input for the model.

The figure gives the result for the determined focus and dose across the wafer. Each step in focus is 20nm and each step in dose is 1.25%. In the dose plot a typical processing fingerprint (and one flyer) is seen.



Focus measurements with scatterometry

Hans van der Laan

December 2003

<file name>
<version 00>
<author>

/ Slide 1

Outline

- Introduction
- Experimental
- Principle
- Create model based on calibration step
- Results
- Correlation to other focus techniques
- Use of Scatterometry Focus Technique
- . Conclusions

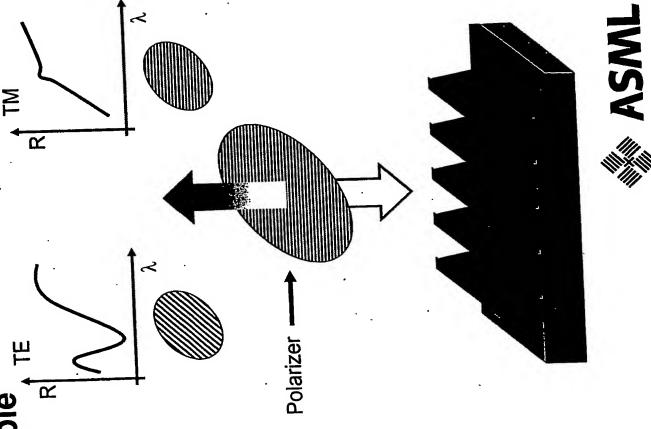


Slide 2

Scatterometry principle

Measure reflectance as a function of

- Wavelength
- Polarizer orientation: TE or TM
- Scatterometry types
- perpendicular incidence polarized & non-polarized Reflectometer
- Oblique incidence Ellipsometer







Introduction

- Two ways-of-working with scatterometry
- Use optical constants of materials + complex calculations (inverse Maxwell) to derive CD-values from spectra (standard)
 - Direct translation of spectra into Focus and Dose values, using an experimental calibration step (proposed here)
 - Advantage: outputs are the scanner adjustables
- Concept
- Spectra contains info on resist profile (focus dependent)
 - No special mask necessary as for PSFM / LVT tests
- Accuracy will depend on Scatterometry and resist type



Closed loop focus control Closed loop litho cell with scatteron MSW W Dose map per route (e.g. hotplate) multiple Unicom settings, config Unicom blades ffwd correction of mask errors Interface with FAB-APC system dose/field, dosicom/field and SEM presentation SPIE 2004 DoseMapper part of ISD-roadmap Scat. Track | Analyser Scanner DoseMapper + Enhanced Exp in Rel. 8.8.6為 DoseMapper + Enhanced Exp in Rel. 3.4 APC upgrade (only new OTAS rel.) CD Mapper feasibility at IMEC / Slide 5 AWSUM upgrade, Rel 3.5 CD Mapper_1, Rel 3.5 CD Mapper_2, Rel >3.5 HV-Optimizer, Rel 3.5? MaskMapper, Rel 3.5? Focus Mapper requirements DoseMapper JDP AMD

Experimental

AT:850, M8868, NA=0.8, 0=0.85/0.55

110nm isolated line (pitch 1:6, binary mask)

Wafers from MEMC, deliberately made unflat

. Re-coated and re-exposed several times for the different tests

Scatterometer KT SpectraCD

• Oblique incidence, MAM = 4s/pt (Move - Acquired - Measure)

• Calibration on 13x9 mini FEM (flat wafer)

• Focus: $-300 \Rightarrow 60$ nm, Dose: $26 \Rightarrow 32$ mJ/cm²

Scatterometry read-out on ELM-Scat FWCDU wafers

Focus tests to correlate with:

Levelling Verification Test (LVT)

Wafer Map, MA



Principle

Calibration with FEM

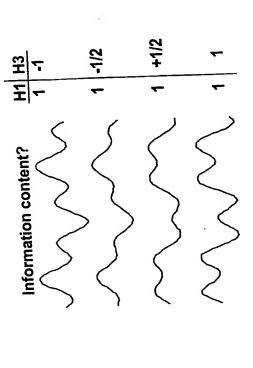
Focus & Dose determination on product wafer

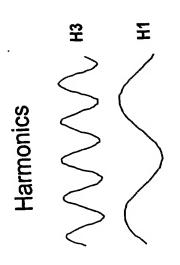
Spectrum from product wafer Energy = E2 Best match for: Focus = F2 lntensity match Best Spectra from FEM Energy 召 ᆔ Focus 72 F4

/ Slide 7

MSW WI

Principle of PCR



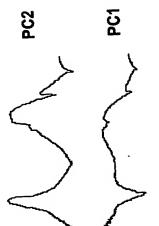




PC1 PC2

Scatterometry spectra





+1/2

F2

ī



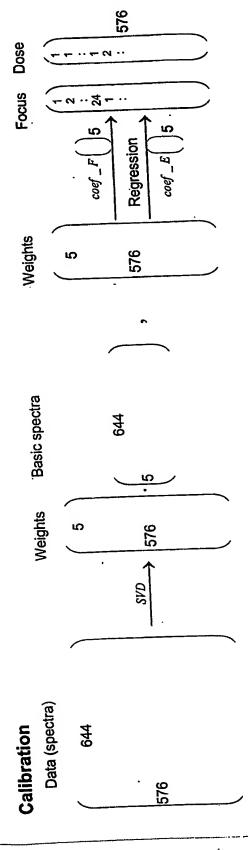
Relation described with regression

F4

T3

/ Slide 8

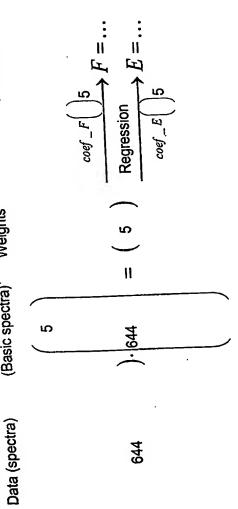
Principle Component Regression [RCar]



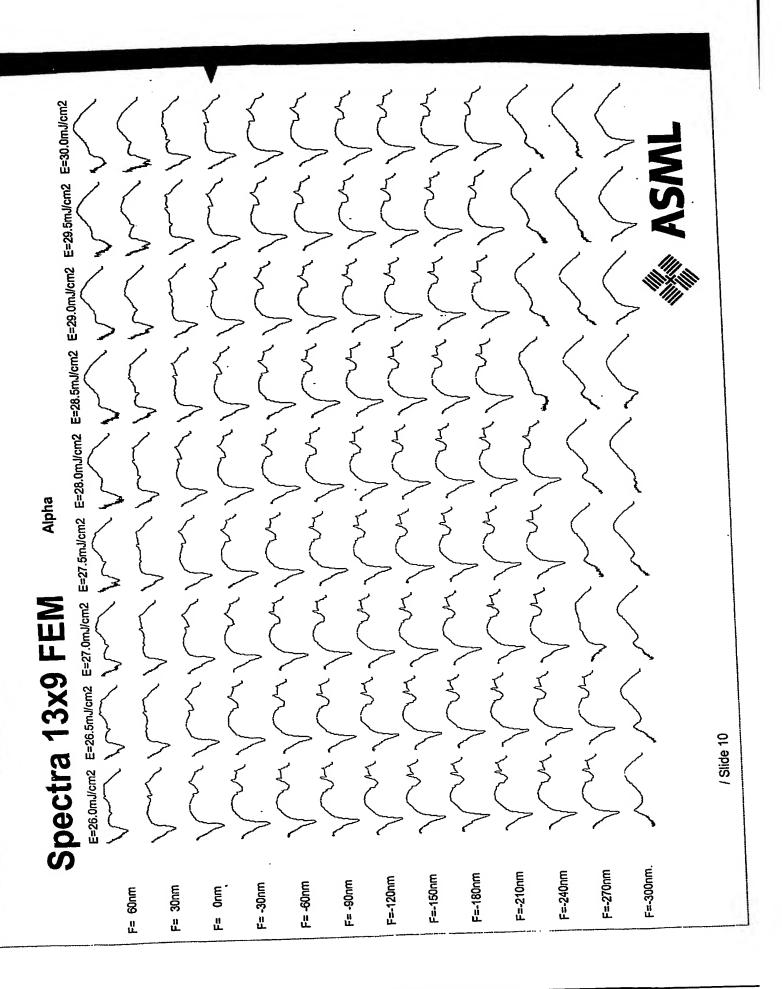
Focus & Dose

(Basic spectra)^T Weights

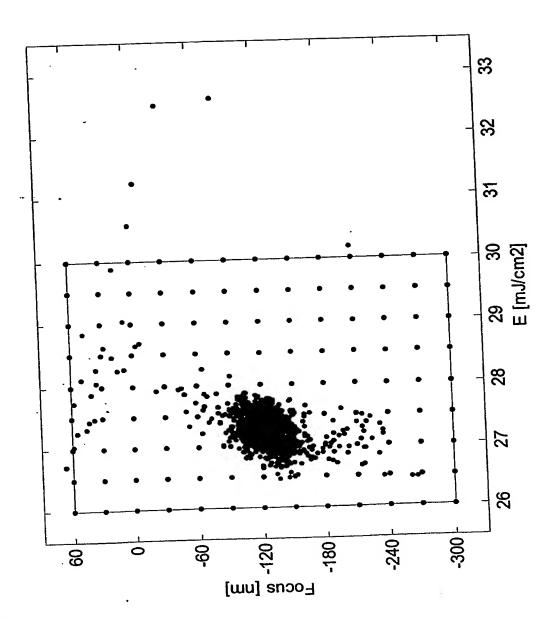
Verification and use





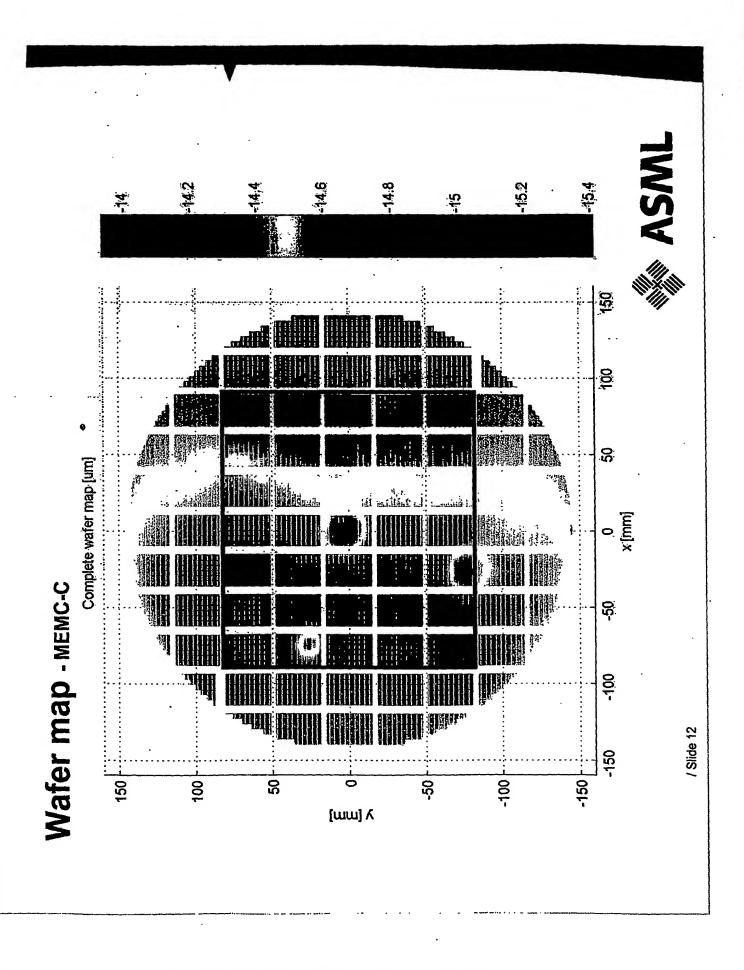


Apply model to Full Wafer spectra

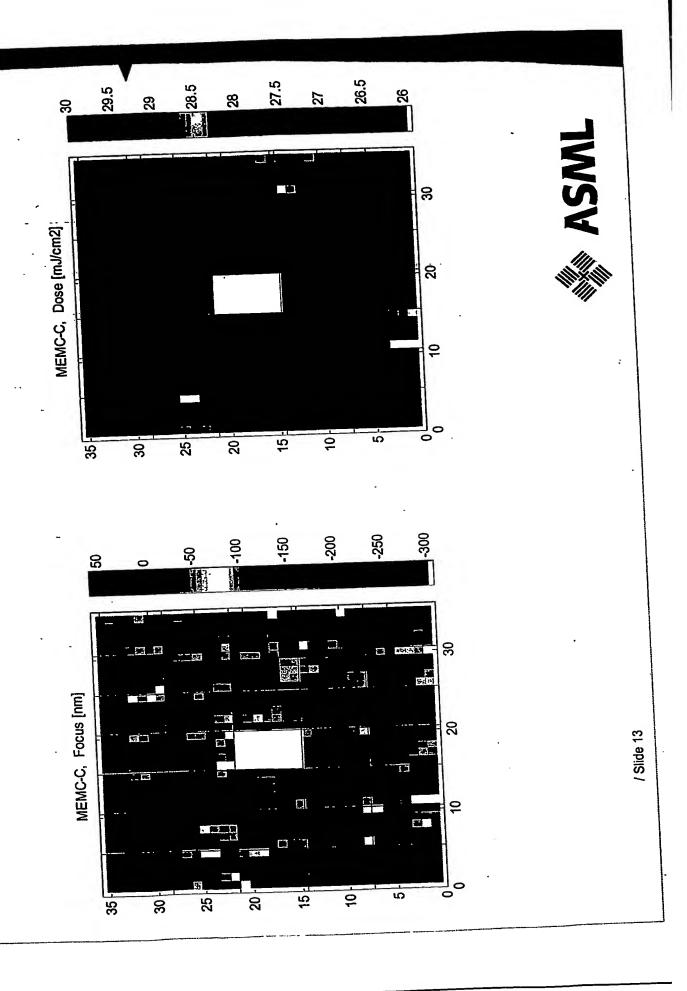


MSW WSWI

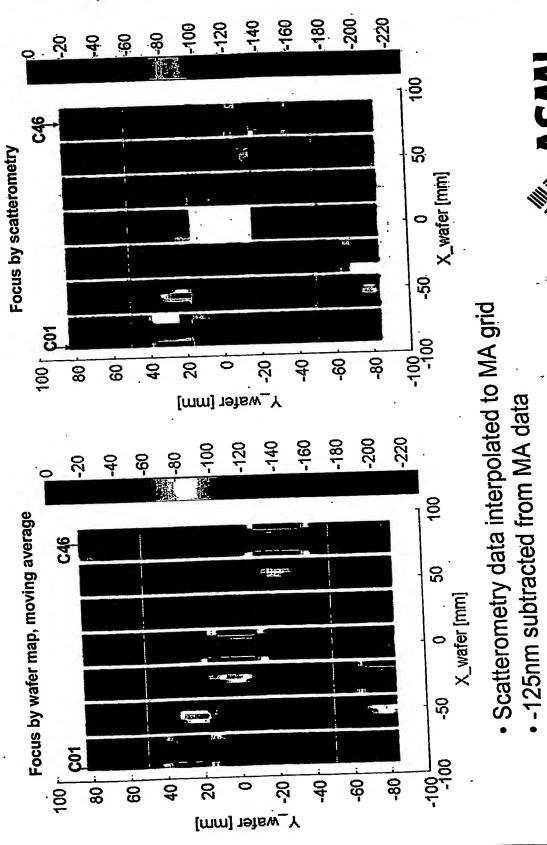
/ Slide 11



Focus & Dose measurements with scatterometry



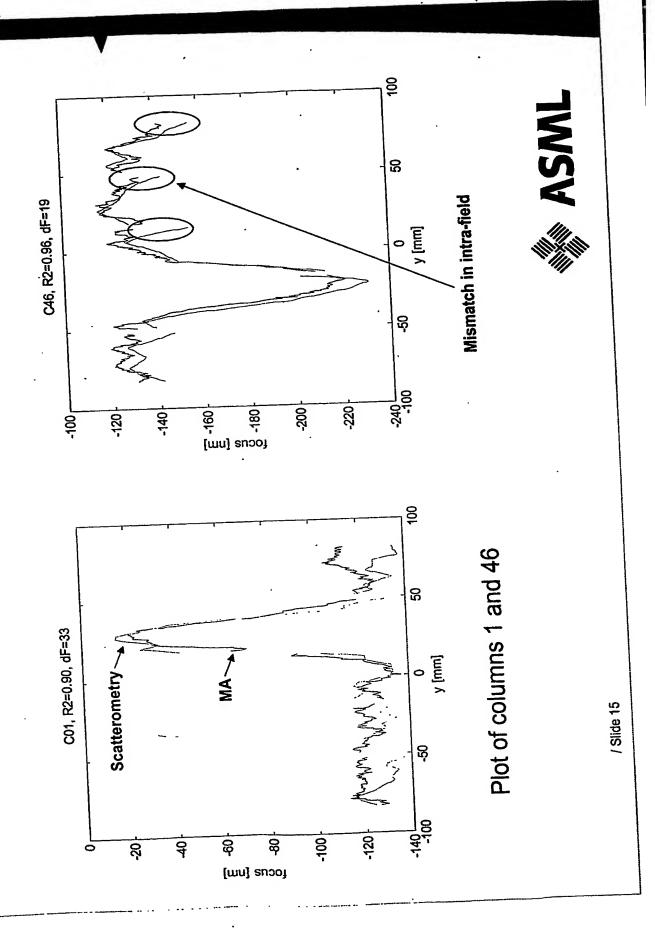
Focus by Wafer map (MA) vs. scatterometry



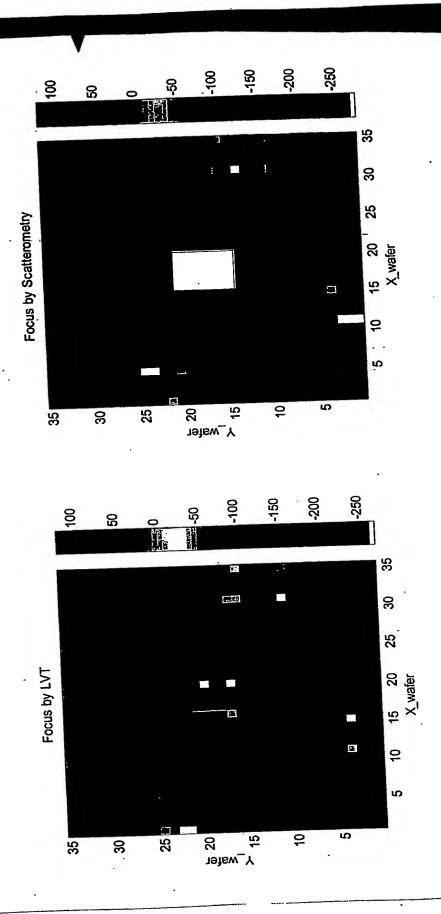
MSW ASWI

/ Slide 14

Focus by MA vs. scatterometry



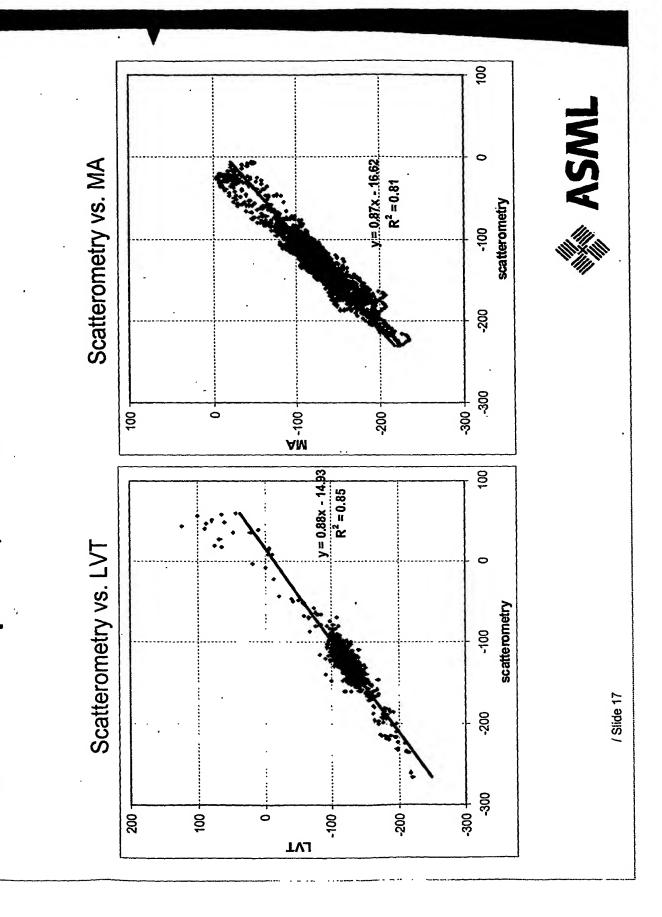
Focus by LVT vs. scatterometry





/ Slide 16

Correlation plots (intra-field difference subtracted)



Accuracy

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	•		Ω ₂	dF Inm 3ol	slope	X
	dF [nm 3σ]	adois	-		000	0 ጸዳ
		100	200	36	 88	20.5
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			0.77	36	0.87	00
8	25	0.93	: :		3	780
2_	,	0	0.71	37	 	- - -
MEMC D. a	31	0.0	;		0 0	0.74
	70	060	0.73	98	0.0	
	17	20:0			200	0.79
-	100	88.0	0.75	36	0.00	
Average	17	00.0				•

Intra-field difference subtracted

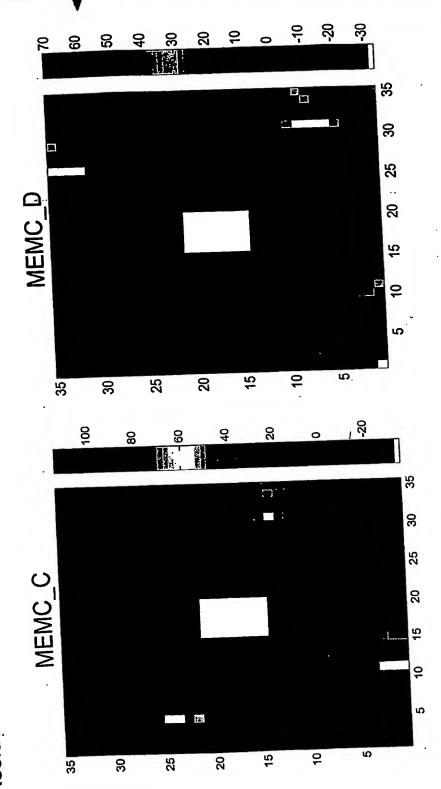
- Accuracy (3σ) < 25nm
- Based on correlation results
- Example: Ry accuracy < $0.2\mu m$ (3 σ), using 75 measurements



/ Slide 18

Use of Scatterometry Focus Technique

Residual of the LVT/Scatterometry correlation



Focus offset differences between the two exposures are seen LVT and scatterometry are based on a separate exposure



Slide 19

Conclusions

- Good correlation with LVT and Wafer Map, MA-data
 - Accuracy of Focus by Scatterometry <25nm (3a)
- Scatterometry is flexible since it works
- with all mask types
- , with all illumination settings
- (as long as calibration done on the same substrate) on test wafers, on scribe-lane and within chip
 - with test structures / chip structures



Possible further experiments

Use of the Scatterometry Focus Technique

Adjust focus knobs for imaging structure and resist

Compare with FOCAL

Does CD-Uniformity improve?

Repeat experiment on production like structure

E.g. Brick Wall, Contact Holes, real product reticle??

On top of product

. Calibration: Expose a FEM, rework wafer after read-out

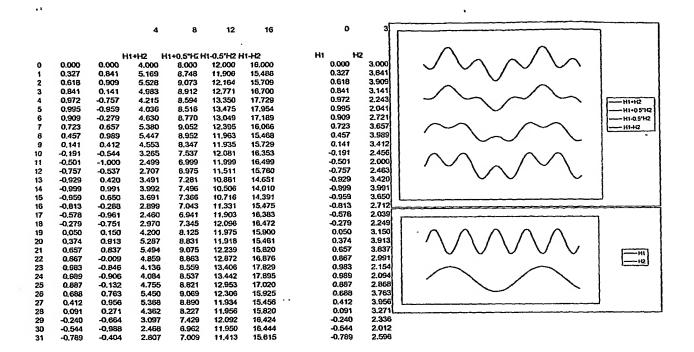
Use on the to-be-measured-wafers (Full Wafer Coverage)



Possible further experiments

- New investigations
- . Use MA data for calibration step
- Determine absolute BF directly from Focus Meander
- Investigate dependency on resist and scatterometry type
 - Investigate dependency on process variation other than Focus/Dose
 - . Try to decrease dependency





	A	В	c	В	E	F	G	н		ı L	к	L	М	N	0	Р	9	R	S I		Ü	V
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8		0.0588				0,3723	0.5358	==			~ V				H				^			H
10	-0.0287	0.0555	0.1113	0.0268	0.1912	0.3599	0.5342						\					/	1	$\sim $		Ä
11	-0.0280	0.0586	0.1120	0.0307		0.3735					\ \ \	,	~~		固						N -	Ħ
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19	-0.0290	0.0549	0.1110	0.0307	0.1952	0.3742	0.5348				V	\sim	V	\ -	ഥ			,	V	`	/	Ħ
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21 22	-0.0295	0.0558	0.1105	0.0221	0.1869	0.3884	0.5312					${\hspace{-0.1cm}\checkmark\hspace{-0.1cm}}{\hspace{-0.1cm}\prime}$	ľ		口口							
-23 24	-0.0325	0.0652	0.1075	0.0215									•	\mathcal{V}	Н							
25 26		0.0587													H							
27	-0.0310	0.0542	0.1090	0.0232	0.1887	0.3697	0.5351		==	=							=					=
26 29	40.030 0	0.0538	0,1094	0.0249		0.3707															=	===
30 31	0.0315	0.0554	0,100	0.0239								+										
32	0.0320	0.0524	0.1000	0.0204	0,1864	0.3683	0.5343											==				
34	-0.0344	0.0549	0.10%	0.0200	0.1676	0.3721	0,5393												==			==
35 36	-0.0317	0.0626	0.108	0.0245	0.1903	0.3720	0,5379															
37	-0.032	0.0536	0.1080	0.0218	0.1876	0.3696	0.5358	-	$\vdash = \vdash$	-							——Ţ					
39	-0.032	0.0568	0.107	0.0245	0.1900	0.3729	0.5391															=
40	-0.0326	0.0555	0.107	0.0176	0.1842	0.3670	0.6334															
42	-0.031	0.0533 2 0.0500	0.108	0.0213	0.1873				 													
45	-0.0300	0.0513	0,110	0.0214	0.1864	0.3683	0.5313						=					==				
48	-0,032	3 0.0540	0,107	0.0216	0.1878	0.3701	0.5363										==					
47		0.0511																				
. 49	-0.029	0.0495 0.0494	0.110	7 0.0200	0,1849		0.5288			=												
50 51	0.031	2 0.0516	0,108	0.020	0.1860	0.3672	0.5328															
52 53	-0.030	4 0.0507 1 0.0626	0,100	9 0.022	0.187	0.3679																
54 55		4 0.0482 3 0.0483	0.111	8 0.019																		
58	-0.028	3 0.0487	0.111	7 0.018	0.182	0.3600	0.5250										=	=	=			
57 58	-0.033	3 0.0511 6 0.0471	0.108	7 0,017/																		
59 60	-0,031	3 0.0523 2 0.0504	0,108	7 0.020 8 0.022																	-	
61	-0.028	2 0.0481	0.111	8 0.019	0.184	0 0.3622																
62 63	-0.027	4 0.0452	0.112	6 0,017	0.181	5 0.3586	0.5220															
84 85	-0.032	9 0.0487	0.107	4 0.019 1 0.019																		
65		0.047			0.182																	
68	-0.025	3 0.0480	0.114	7 0.022	0.185	4 0.3607	0.5233															
69 70	-0.028	6 0.0493 5 0.0478	0.111	5 0,019	3 0.183	6 0.3620	0.5262	2														
71	-0.027 -0.028	7 0.0484 0 0.0474	0.112	0.020																		
73	-0.027	1 0.045	0.112	0.019										 								
75	-0.027	8 0.047 5 0.042	0.112	4 0.019	7 0.183	5 0.3611	0.5249															
#	-0.024	8 D.0478	0.115	4 0.023	0.185	3 0.359	0.522															
70 70	-0.026	0.048	0.113	6 0.021										<u> </u>	<u> </u>							
80	-0.022	5 0.045	0.117	5 0.023	0.164	2 0.356	0.518		-													
82	-0.023	5 0.046	0.116	5 0,022	7 0,164	5 0.357	0.519	7	 													
83 84	-0.022	6 0.043	0.117		4 0.181	7 D.354	3 0.5150	3														
5	-0.022	0 0.042	0.115	0.020	3 0,181 2 0,183	3 0.353 7 0.354	3 0.514 8 0.515							<u> </u>	\vdash			<u> </u>	<u> </u>	<u> </u>	<u> </u>	
	-0.022	0.046	0.117	72 0.024	2 0.185	6 0.358	3 0.619							-								
80		2 0.044 2 0.042	0.120	0.02	0.182	6 0.351	8 0.511	4					==									
80	-0.019	8 0.043 5 0.044 5 0.044	0.120	6 0.023																		
88		5 0.044	0.11	25 0.024 29 0.023					 					1					<u> </u>			
94	-0.019	M 0.043	0,120	0.024	0 0.163	7 0.353	1 0.512	3	=		<u> </u>			<u> </u>					F=			
85 98	-0.019	0 0 042	0.120	12 0.02	3 0.18	0.355	0.514															
87	-0.017	0.043	0.12	28 0,025			6 0.513		1			<u> </u>				 	<u> </u>					
99	-0.013	33 0.041	0,12	0.02	0.186	0.348	0.505	0	1	 	<u> </u>			F==			-			-		二二
100	-0.013	57 0,040 57 0,039	0.12	33 0.026	0.183	0.348	7 0.503	8	1													
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104	-0.01	17 0.038 32 0.039	8 0.12	53 0.027	2 0.15	0.344	7 0.500	5		\vdash			==	F	, —					=		
100 100	-0.01	38 0.041	2 0.12	52 0.02	4 0.10	0.348	0.505	0	1													
107	-0.01	29 0.039 18 0.039	4 0.12	0.02																		
100	-0.01	15 0.039 06 0.039	8 0.12	86 0.02	0 0.18	38 0.345	0.501	1	1-		 			-	+	1	 	 				1
111	-0.01	18 0.038	7 0.12	84 0.02	71 0.18	29 0.344	5 0.500	3	1					F	 	=		 			 	
113	-0.00	87 0.032 80 0.038	6 0.13 1 0.13	13 0.02 20 0.03														1				

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114	-D.0068	D.0378	C 0 1312	D.028	0.1534																	
115	-0.0000	0.0386	0.1310	0.029	0.1840	0.3430																
117	-0.0075	0.0352	0.1325	0.026												 -						
116	-0.0062	0.0348	0.1338	0.028																		
119	-0.0060	0.0358	0,1340	0.029	0.1528	0.3388															}	
120		0.0353					0.4906															
122		0.0350					0.4909															
123		0.0343																				
124 125		0.0369													<u> </u>							
128	-0.0044	0.0352	0.1356	0 030		0.3374	0.4898															
127		0.03541																				
128	-0.0040	0.0342	0.1360	0.030			0.4883															
130	-0.0009	0.0329	0,1391	0.031	9 0.1824	0.3334	0.4838															<u> </u>
131	-0.0022	0.0340	0,1376	0 031					 													
132	-0.0030	0.0345	0.1370	0.031																		
134	-0.0013	0.0334	0.1387	0.032	0 0.1827	0.3341	0.4847															
135	-0.0011	0.0335	0.1389	0.032		0.3340		 		 	 -				 	<u> </u>						
137		0.0334				0.3340																
138	0.0005	0.0329	0.140	0.033	4 0.183														 	ļ		
140	-0.0013	0.0315	0.141	0.032					 	 	 				 							
141		0.0314																				ļ
142		0.0336							 		ļ				├		ļ			 	 	
143		0.0337								 	<u> </u>											
145	0.0030	0.0321	0.143	0.035	0.183	0.330	0.479												 	ļ	ļ	
145	0.0014	0.0333	0.141	0.034						 	 			ļ	 	 	 	 	 		 	
147	0.0045	0.0339	0.144	0.036																		
149	0.0065	0.0318	0,145	0.037	4 0.184	0.329	0.478	<u> </u>							!	 				 	 	
150	0.0049	0.0320	0.144	0.03					}	 	-	├──		 	1	 						
152		0.0314																				-
153	0.0085	0.0330	0.145	5 0.031	25 0.186	2 0.329	7 0,476		=	<u> </u>						 	 	 	 	 	 	
154 155	0.0001	0.0314	0.149	0.040					 	-	 	 		 -	1							
156	0.0090	0.0320	0.149	0.04	0.166	5 0.327	5 0.473	0			<u> </u>				-			1	 		 	
157	0,0098	0.0312	0.149	0.04 7 0.04	0.186 0.187					 	 	}	 	 	 		 	 	<u> </u>	<u> </u>	<u> </u>	
159		0.0315							 		 											
160	0.0132	0.0312	0.153	2 0.04	15 0.187	8 0.324								<u> </u>		 	├ ──	 	 	 	 	
181	0.0133	0.0315	0.153	3 D.D4-					 	 	 	 			 	 						
163		0.0300	0,156	8 0.04							1								I			-
164	0,0168	0.0301	0.156	8 0.04	70 0.185					 	 			 	 -		 	 	 	┼──	 	+
165 188		0.0301							 	 	 	 	1	 	1	 						
187	0.0211	0.0297	0.161	1 0.05	0.190	3 0.319	2 0.458									F	F			 	 	} -
168		0.0294	0.161	8 0.05 1 0.05	13 0.190 29 0.190					 	 	 		 -		+		 	 	 	 	
169		0.0280							 	 												
171	0.0254	0.027	0,165	4 0.05	34 0.190					Ţ	Ţ	1		ļ			 	┼──	 		}	
173		0.028							 	 	 	+	 -	1	1	+		1				
174	0.0300	0.027	0.170	8 0.05	77 0.192	4 0.311	9 0.445	6							1						 	
175		0.0256	0.171	0.05					 			 	 	 			 		 -	 -	 	
170		0.025		5 0.05					1	-	1	 	 									
175	0.034	0.025	3 0,174	0.05	0.190					1		1		_			├		 	 -	 	
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183		4 0.021 3 0.021							.}			-	 	+				1				
185	0.045	0.020	4 0.18	0.00	54 0.19	29 0.29	0.42												-	-		
100	0.048	2 0.020	01_0.18	<u> </u>	62 0,190 54 0,190					+			 		+	+	+	+	+		1	
187		8 0.018 7 0.018	6 0.18	38 0.05 37 0.05					1		上										T	
189	0.048	31 0.018	9 0.18	20 0.00	81 0.19	15 0.29	2 0.41	X6		1		-	 	1-	\perp	-	1	+	1	 	+	
190		7 0.017 7 0.015							+	+	+	+	1	+	+		1		1	<u> </u>		土
192	0.063	2 0.014	9 0.19	32 0.00	81 0.19	15 0.28	83 0.41	7	1	1	1		1	1	4			\leftarrow	\leftarrow		+	+
193	0.054	4 0.014		0.00	193 0.19	21 0,28	77 0.41			+	+	+	+	·			+	+		+	+	
19		8 0.013 8 0.013		54 0.00 56 0.00						_								1		1		1
190	0.057	4 0.011	3 0.19	74 0.00	87 0.19	00 0.25	26 0.40	39	 		+=	4		+	\bot		+		+			_
19				0.00		21 0.25			+	+	+	-	1	1		_					1	
18					712 0.19 706 0.18			90			1		_	1	T	1						
200		0.000	0.20	16 0.0	0.18	00 027	83 0.39			+	-		+	+			+	+	+		1	1
20 20	0.083	8 0.007	5 0.20	19 0.00 38 0.0	712 0.18	75 0.27 93 0.27					1											
203	0.063	9 0.007	2 0.20	39 0.0	711 0.18	92 0.27	52 0.39	32	+		4		+	4-		-	+					+
20 20		0.005 2 0.005				81 0.27			+		+	1	1	1			1	\perp	1			
20	0.066	0.004	0.20	61 0.0	700 0.18	70 0.27	10 0.38	70	1		1			7			1			-		4-
20	0.087	5 0.003	0 0.20	75 0.0 73 0.0	706 0.18				-	4	+		4	+	+			+		+		
20	0.087	0.001	2 0.20	79 0.0					1		土											
21	0.088	0.000	7 0,20	85 0.0	0.10	60 0.26	64 0.38	21		1	4=	1	+	4-	-1	1		-	+	<u> </u>		 -
21	0.009	2 -0.000	77 0.20	∞ 2 0.0		39 0.26 27 0.26					+			 			+	+		+	1	1
21 21	0.000	-0.002	8 0.20	66 0.0	873 0.18	23 0.26																\perp
21	0.070	-0.004	0.21	0.0	681 0.10	0.26	07 0.37	55		4		4	+	J	4	4	4	+-	1	_	+	+
21	0.070	12 -0.004 13 -0.006			657 0.16 650 0.16					+			+	+						-		
21 21	0.072	23 -0.000	2 0.21	23 0.0	660 0.17	99 0.25	76 0.37													1		
21	0.071	10 -0.007	8 0.21	10 0.0	635 0.17	80 0.25	69 0.37	14		-	4	-	4		+			1-	-		+	
21 22		06 -0.007		06 0.0	639 0.17 609 0.17		70 0.37 47 0.36			-	1	1	1	1								
1 22	0.071	15 -0.000	0.21	15 0.0	818 0.17	58 0.2	43 0.30	86		7		1	1			7		1				
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0.051	01-0.01721	0.2010] 0.04										<u> </u>	 			 						
0.059	4 -0.0187		107 0.15 104 0.16		0.37	737		-				-				Ţ	1					
0 037	9 -0.0123	0.1779 0.00	256 0.15					- -						戸				-				
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0.02	70 -0.0058		226 0.15	591 0.28	22 0.4							1				1	┼	-			 -	
0.02	531 -0 00361	0.1553 0.0	217 0.15	590 0.28 601 0.28		210						Ţ	Ī					+-				
0.02	44 -0.0020	0.1844 0.0	223 0.16 208 0.15			261					├ ──											
002	23 -0.0016 12 -0.0002			604 0.28	391 0.4	285						1								_	二	
3	001 00011	เลาหลดเยื่อเ		612 0.29 615 0.29		4334	\dashv				Ţ	!		- 	+-	-						
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7 -0	0003 0.019	4 0.13971				0.4706																
3 0	0012 0.019 0015 0.020		0.0188		3211	0.4718				-						=						
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70	00441 0.02	25 0.1358	0.0181	0.1703 0		0.4768				+												
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22	0064 0.02	37 0.1336		0.1705		0.4801									_+-							_
** 1 **	100711 0.02	35) U.1329	0.0168	0.1702		0.4818																
뙲	0.0074 0.02	47 0.1323	0.0169	0.1708	0.3285	0.4824				+-												
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201	0.00971 0.00	262 0.1303]			0.3311	0.4869					—											┼—
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93 94	0.0109 0.0	267 0.1291		0.1713	0.3321	0.4878																
205	0.0112 0.0	269 0.1268 <u> </u>	0.0158		0.3327	0.4883			Ε													
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298	0.0120 0.0	276 0.1280	0.0158		0.3335	0.4895									-+							1
200	00123 0.0	277 0.1277	0.0154	0.1717	0.3344	0.4907			-	-									+			
201	0.0125 0.0	281 0.1274 282 0.1272	0.0153	0.1718	0.3346	0.4910			+													7
302	-0.0132 0.0	284 0.1268	0.0152		0.3350	0.4918					=	F										
303	0.0134 0.0	1285 0,1266 1286 0,1264			0.3354	0.4922	==	L	+													1
306	-0 0139 0.0	0287 0.1251	0.0147	0.1717	0.3358	0.4926									+							\Box
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307	-0.0144 0.0	0292 0.1258 0293 0.1251	0.0144	0.1719	0.3367	0.4942				-		$=\pm$			\Box		<u>-</u> -	+				
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310	-0.0153 Q	0295 0.1247 0295 0.1246	0.0142	0.1719	0.3372	0.4950			1	-+-								\Box			 	-
312	0.0157 0	0297 0.1243	0.0140	0.1718	0.3375				-													
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315 310	_0.01671 O	0.1233	0.0.04	0.1718	0.3385		⊢	1	ユ				=				 -					
317	_n es701 0	1,03011 0.1230	0,0131			0,4974			工二									==		 	+	
318 319	D 0475 C	0.0302 0.1228 0.0304 0.1225	0.0129	0,1716	0.3392	0.4979			+-						=							二
320	-0 0179 C	0.1222	0.0120		0,3393				#		\Box	$ \Box$		+	+	+					+	
321	-A 0179 C	0.0304 0.1221 0.0305 0.1217	0.0120		0,3398	0,4987			4-				+				==				+	_
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224	-0.0156	0.0305 0.1214	0.0119		0.3396						\Box	\Box		 +	 1						4	-+
325	-0.0188	0.0306 0.1212 0.0306 0.1200	0.0116	0.1712	0.3404	0.5000		1												 		-
326 327	_001951	0.03051 0.124	0.0111	0.1706	0.3403	0.500			-						\Box		——					
320	-0.01981	0.0306 0.120	6 6,0111		0.340				$\dashv =$			=								1	+	 -
329	-0.0200	0.0307 0.120 0.0309 0.119	0.0108	0,1708	0.341	0.501	0	1-			 -		 1							+	-	_
330 331	0.0204	G 03061 O 119	0.0104	0.1706	0.3411	0.501		+	\dashv													
332	-0.0207	0.0307 0.119	3 0.0101								=										4	
333	-0.0210	0.0308 0.119 0.0308 0.118	0.000	0.1700	0.341	2 0.501	8	1-	_		-			1					├─	╂	+	_
1222		0.03071 0.116	5 0.000	2 0.1700	0.341	4 0,502		+-														
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340	-0 022	B 26 0 030	C 01174	0.0000	0.1693	0.3420	G 0.5033	Н				 -			° ∤			~-			-	
341	-0.022	0.030	0.1171	0.0078		0.3421	0.5036															
342	-0.023	33 0.030	0.1187	0.0073	0.1690	0.3422							7								 -	
343		9 0.030																				
345	-0.024	0.030	0.1150	0.0084	0.1885	0.3426	0.5047															
348				0.0064																		
347	-0.024	44 0.030 47 0.030	0.1158	0,0062				<u>'</u>														
349	-0.024	0.030	0.1151	0 0057	0.1682																	
350	-0.025	52 0.030	0.1148	0.0052	0.1678	0.3430					!											ļ
351 352	-082	55 0.030 58 0.030	0,1145	0.0050	0.1677		0.5059	·														
353	-0.02	30 0.030	0.1140	0.0044																		
354	-0,026	81 D 030	0.1139	0.0043	0,1874	0.3435	0.5068															
356 356		641 0.030 66 0.030			0.1670			<u> </u>														
357				0.0034																		
358	-0.02	70 0.030	2 0,1130	0.0031	0,1687	0.3437	0.5072															
359 360	-0.02	73 0.030	0.1127	0.0029	0,1665			 	<u> </u>			<u> </u>										
361		75 0.030 77 0.030																		-		1
362	-0.02	80 0.030	1 0,1120	0,0021	0,1661	0.3441	0.5081															
363		80 0.030		0.0020	0,1660			 	l													
364 365		85 0.030												 								
366	-0.02	85 0.029	0.1112	0.0012	0,1655	0.3443	0.5067															ļ
367		90 0.029			0,1654		0.5089			<u> </u>	 	ļ'		 		 -					 	
368	-0.02	92 0.029 93 0.029	8 0,1107	0,0005		0.3445	0.5092	-	 		<u> </u>	<u> </u>		<u> </u>								
370	-0.02	97 0.029	8 0.1103	0.0002	0.1650	0.3446	0.509						=									
371	-0.02	98 0.029	7 0,1102	-0.0001	0,1648						<u> </u>			<u> </u>	 -					ļ	 	
373		0.029							 		 		<u> </u>		—							
374	-0.03	0.029	6 0,1097	-0.0007	0.1645	0,344	0.5100															
375	-0.03	06 0.025	0.1004	-0.0010						<u> </u>			├ ──			 					 	
376 377	203	07 0.025	6 0 1000	0.0010	0,1543				 		 					<u> </u>		<u> </u>		<u> </u>	<u> </u>	
378	-0.03	12 0.029	4 0,1088	-0.0017	0,1639	0.3450	0.510															
379		13 0.025							 	ļ	}		 	 	 	 -	 			 	 	
380 381	200	15 0.029	3 0.1001	5 -0.0021 1 -0.0025	0,1636	0,3453	0,5112						<u></u>	<u></u>								1
382	-0,03	15 0.029	2 0.1062	0.0026	0.1833	0.345	0.511														ļ	1
383	-0.03	0.02	4 0.1078	-0.0028 7 -0.0030	0.1633				!	!		 	 	 	 	 			 	} -	 	
384 385	300	25 0.021	3 0.1074	-0.0033	0,1630				 			 		 								1
386	-0.03	28 0.029	3 0.1072	2 -0.0035	0,1629	0.345	0.512															Ι
357 388	-0.03	0.021	0.1070	0 -0.0036 7 -0.0040	0.1629				 	 	 		 	 	 	 		 	}	 	┼	
389				7 -0.0040					├──	1	 	 	 				}					
390	-0.03	361 0.021	4 0.105	4 -0.0042	2 0,1526	0.346	0.513															
391	0.03	338 0.021	2 0.108	20.0046	0.1623				 	 		 	├	 						 	1	
383				1 -0.0045 8 -0.0046					 	 	 			-							1	
394	-0.03	0.02	3 0,106	8 -0.005	1 0.1621		0.513															
396				4 -0.005						ļ	 	 	 		 	 		 			 	
398				2 -0.005 9 -0.005					+		 	+		 	 	 	-		1	1	 	1
398	-0.03	352 0.02	5 0.104	8 -0.005	6) 0.1618	0.347	0.514	7														
399				8 -0.005					 	 		 	 	├ ──	 	}	 -	<u> </u>		├ ──	 	
400 401		350 0.02	0.104	1 -0.006	0.151	0.347			 			 	 	 	+	 				 	1	
402	-0.00	362 0.02	77 0.103	5 -0.005	5 0,1818		0.515															
403	-0.00	365 0.03	0.103	5 -0.008	0.1617				 	} -	 	ļ	ļ	 	 -	 	 	 	 		 	
404 405	-0.0	170 0.03	0.103	3 -0.006 0 -0.007	0.161				+	 	+	 	 	 	 		1	 	 			1
406		372 0.03	0.102	8 -0.007	0.181				-	1												
407	-0.00	374 0.03	0.102	6 -0.007	21 0,1615												i			.)	1	
400	-0.0	377 0.03 379 0.03	23 0 102	3 -0.007	2 484					F		 	}	 	+							
410	-0.03	380 0.03	0.102	11 -0.007	5 0.181	0.349	0.517	0				==	 	 	1	 			 	-	==	
411	-0.0	381 0.03		00.007	4 0.1814 5 0.1814 7 0.1614	0.349 0.349 0.349	0.517 0.518 0.518	2														
413	-0.0	sett 1 0.003	M D.101	9 -0.007	4 0.1814 5 0.1814 7 0.1614 7 0.1614	0.349 0.349 0.349 0.349	0.517 0.518 4 0.518 5 0.518	2 4														
414	-000	351 DM	0.101	9 -0.007 9 -0.007	4 0.1814 5 0.1814 7 0.1614 7 0.1614 5 0.161	0.349 4 0.349 4 0.349 4 0.349 5 0.349	0.517 3 0.518 4 0.518 5 0.518 6 0.518	2 4 5														
415		381 0.03 380 0.03	05 0.101 05 0.101 07 0.102	9 -0.007 9 -0.007 9 -0.007 9 -0.007	4 0.1814 5 0.1814 7 0.1814 7 0.1814 5 0.1815 8 0.1815 3 0.181	4 0.349 4 0.349 4 0.349 5 0.349 5 0.349 7 0.349	0.517 3 0.518 4 0.518 5 0.518 6 0.516 6 0.516	9 2 4 5 8 8														
416	-0.0	381 0.03 380 0.03	05 0.101 05 0.101 07 0.102	9 -0.007 9 -0.007 9 -0.007 9 -0.007	4 0.1814 5 0.1814 7 0.1814 7 0.1814 5 0.1815 8 0.1815 3 0.181	4 0.349 4 0.349 4 0.349 5 0.349 5 0.349 7 0.348 8 0.349	0.517 3 0.518 4 0.518 5 0.518 6 0.516 6 0.516 6 0.516	9 2 4 5 6 6 6 6 5														
417	00	381 0.03 380 0.03 378 0.03 377 0.03	05 0.101 05 0.101 07 0.102 07 0.102 06 0.102	9 -0.007 9 -0.007 9 -0.007	4 0.1514 5 0.1614 7 0.1614 7 0.1614 5 0.1615 8 0.1615 3 0.1616 2 0.1616	4 0.349 4 0.349 4 0.349 5 0.349 5 0.349 7 0.349 8 0.349	0.517 3 0.518 4 0.518 5 0.518 6 0.518 6 0.518 6 0.518 6 0.518	2 2 4 5 5 8 8 8 8														
417	-0.00 -0.00	381 0.03 380 0.03 378 0.03 377 0.03 375 0.03 372 0.03	05 0.101 05 0.101 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102	0 -0.007 9 -0.007 9 -0.007 9 -0.007 0 -0.007 22 -0.007 33 -0.007 -5 -0.008	4 0.1814 5 0.1614 7 0.1614 7 0.1614 5 0.1613 3 0.1614 2 0.1614 1 0.1614 8 0.1614 8 0.1624	0.349 1 0.349 1 0.349 1 0.349 5 0.349 5 0.349 6 0.349 8 0.349 8 0.349 9 0.349 0 0.349	1 0.517 3 0.518 4 0.518 5 0.518 6 0.518 6 0.516 6 0.518 6 0.518 6 0.518 6 0.518	9 2 4 5 5 6 6 0 0 5 5 5 5 7 7														
417 418 419	-0.00 -0.00	381 0.03 380 0.03 378 0.03 377 0.03 375 0.03 372 0.03 371 0.03	05 0.101 05 0.101 07 0.102 07 0.102 08 0.102 07 0.102 07 0.102	0 -0.007 9 -0.007 9 -0.007 9 -0.007 0 -0.007 22 -0.007 23 -0.007 25 -0.008	4 0.1814 5 0.1614 7 0.1614 5 0.1625 6 0.1633 3 0.161 2 0.1614 1 0.1614 8 0.1624 4 0.1624	0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349	1 0.517 3 0.518 4 0.518 5 0.518 6 0.516 6 0.516 6 0.518 6 0.518 6 0.518 5 0.518 7 0.518 8 0.518 9 0.518	9 2 4 4 5 5 8 6 6 5 3 2 2														
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417 418 419 420 421 422	0.00 0.00 0.00 0.00 0.00 0.00	381 0.03 380 0.03 378 0.03 377 0.03 375 0.03 372 0.03 371 0.03 369 0.03 367 0.03	05 0.101 05 0.101 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102 08 0.103 08 0.103	0 -0.007 9 -0.007 9 -0.007 9 -0.007 0 -0.007 2 -0.007 3 -0.007 5 -0.008 8 -0.008 11 -0.008 13 -0.008 14 -0.008 15 -0.008 16 -0.008 17 -0.008 18 -0.008 19 -0.008 10 -0.008	4 0.1814 5 0.1814 7 0.1614 7 0.1614 5 0.1615 5 0.1615 3 0.1617 2 0.1617 3 0.1617 5 0.1624 4 0.162 4 0.162 4 0.162	0.349 4 0.349 4 0.349 5 0.349 5 0.349 5 0.349 6 0.349 9 0.349 9 0.349 1 0.349 1 0.349 1 0.349 3 0.349	1 0.517 3 0.518 4 0.518 5 0.518 6 0.518 8 0.518 6 0.518 6 0.518 6 0.518 7 0.518 9 0.517 9 0.517 9 0.517	9 2 4 5 5 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5														
417 418 419 420 421 422 423	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	381 0.03 380 0.03 376 0.03 377 0.03 375 0.03 371 0.03 371 0.03 369 0.03 367 0.03 361 0.03 365 0.03	05 0.101 05 0.101 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102 07 0.102 08 0.103 08 0.103 06 0.103	0 -0.007 9 -0.007 9 -0.007 9 -0.007 9 -0.007 2 -0.007 3 -0.006 5 -0.008 9 -0.008 11 -0.008 13 -0.006 14 -0.008 15 -0.008 16 -0.008 17 -0.008 18 -0.008 19 -0.008 10 -0.008	4 0.1814 7 0.1614 7 0.1614 7 0.1614 7 0.1614 5 0.1611 3 0.1611 2 0.1611 3 0.1611 3 0.1611 4 0.162 4 0.162 4 0.162 4 0.162 6 0.162 6 0.162	4 0.349 4 0.349 4 0.349 4 0.349 4 0.349 5 0.349 5 0.349 5 0.349 6 0.349 6 0.349 1 0.34	1 0.517 3 0.518 4 0.518 5 0.518 6 0.516 6 0.516 6 0.516 6 0.515 6 0.515 7 0.517 9 0.517 9 0.517 9 0.517 9 0.517 9 0.517 9 0.517 9 0.517	9 2 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6														
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417 418 419 410 410 410 410 410 410 410 410 410 410	7 -0.0 9 -0.0 9 -0.0 1 -0.0	321 0.03 330 0.03 330 0.03 3377 0.03 3377 0.03 3375 0.03 3375 0.03 3375 0.03 3375 0.03 3375 0.03 3371 0.03 3399 0.03 3399 0.03 3391 0.03 3391 0.03 3391 0.03 3391 0.03 3391 0.03 3391 0.03 341 0.03 344 0.03 344 0.03	SS 0.10105 SO 1.010107 O.10207 O.10200 O.10300	0 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 10 -0.0077 12 -0.007 13 -0.007 13 -0.006 14 -0.006 15 -0.006 16 -0.006 17 -0.006 18 -0.006 19 -0.006 10 -0.006 10 -0.006 11 -0.006 12 -0.006 14 -0.006 15 -0.006 16 -0.006 17 -0.006 18 -0.006 19 -0.006 10 -0.006 10 -0.006 10 -0.006 11 -0.006 12 -0.006 13 -0.006 14 -0.006 15 -0.006 16 -0.006 17 -0.006 18 -0.006 19 -0.006 10 -0.006	4 0.18144 0.18141 0.1824 0.182	4 0.3494 4 0.3494 4 0.3494 4 0.3494 5 0.3495 5 0.3495 5 0.3495 5 0.3495 5 0.3499 1 0.3499 1 0.3493 1 0.3493 1 0.3493 1 0.3493 1 0.3493 1 0.3493 1 0.3493 1 0.3493 1 0.3493 1 0.3493 9 0.3494 9 0.3494	11 0.5171 3 0.5184 4 0.5186 5 0.5186 5 0.5186 6 0.5186 6 0.5186 6 0.5186 6 0.5186 7 0.5186 8 0.5186 8 0.5186 9 0.5	0 2 2 2 4 4 5 5 6 6 6 6 5 3 3 7 7 7 4 4 0 0 0 0 3 3 1 1 1 5 5														
411 419 421 421 421 421 421 421 421 421 421 421	7 -0.00 3 -0.00 9 -0.00 1 -0.00 2 -0.00 3 -0.00 4 -0.00 5 -0.00 6 -0.00 6 -0.00 6 -0.00 6 -0.00 7 -0.00 6 -0.00 7 -0.00 7 -0.00 7 -0.00 8 -	331 0,03 330 0.03 330 0.03 337 0.03 3377 0.03 3377 0.03 3377 0.03 3371 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03 3771 0.03	35 0.10105 50 0.10107 77 0.102	0 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 2 -0.0077 2 -0.0077 5 -0.005 9 -0.005 9 -0.005 9 -0.005 9 -0.005 10 -0	4 0.16244 6 0.16145 7 0.16147 7 0.16147 7 0.16147 7 0.16147 8 0.16113 8 0.16113 8 0.16113 8 0.16113 8 0.16113 9 0.16244 9 0.16224 9 0.16244 9 0.16244	4 0.3494 4 0.3494 4 0.3494 4 0.3494 5 0.3494 6 0.3495 6 0.3495 7 0.3488 8 0.3498 8 0.3498 1 0.34	17 0.5171 0.5184 0.5184 0.5185 0.5188 0.5	9 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5														
4	7 -0.00 3 -0.00 9 -0.00 1 -0.00 1 -0.00 3 -0.00 3 -0.00 5 -0.00 6 -0.00 6 -0.00 7 -0.00 7 -0.00 9 -	331 0,03 340 0.03 340 0.03 378 0,03 377 0,03	SS 0.10105 SS 0.10107 O.10207 O.10207 O.10207 O.10207 O.10207 O.10207 O.10207 O.10207 O.10207 O.10208 O.1030	0 -0.00770 9 -0.00770 9 -0.00770 9 -0.00770 9 -0.00770 9 -0.00770 9 -0.00770 9 -0.00770 9 -0.00770 9 -0.0070 9	4 0.181414 0.162	4 0.3494 4 0.3494 4 0.3494 4 0.3494 5 0.3494 6 0.3495 6 0.3495 6 0.3495 6 0.3495 6 0.3495 6 0.3495 6 0.3495 6 0.3495 7 0.3486 7 0.3486 8 0.3495 8 0.3495 7 0.3486 8 0.3495 8 0.3495 9 0.3487 7 0.3486 9 0.3487 1 0.3496 1 0.34	10 0.5171 11 0.5181 14 0.5161 15 0.5181 16 0.5181 16 0.5181 17 0.5181 18 0.5181	9 2 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5														
च च च व व व व व व व व व व व व व व व व व	7 -0.00 5 -0.00 0 -0.00 1 -0.0	331 0.03 350 0.03 377	SS 0.10105 SS 0.10107 O.10207	0 -0.00770 9 -0.00770 9 -0.00770 9 -0.00770 0 -0.00770 0 -0.00770 0 -0.0070 0 -0.	44 0.16244 55 0.16147 77 0.16147 77 0.16147 77 0.16147 55 0.1617 55 0.1617 56 0.1617 57 0.16147 58 0.1617 59 0.1617 50 0.1617 50 0.1617 50 0.1617 50 0.1617 50 0.1617 50 0.1627 50 0.	8 0 3494 4 0 349 4 0 349 4 0 349 4 0 349 5 0 349 5 0 349 5 0 349 6 0 349 1	10 0.5171 11 0.5171 12 0.5181 13 0.5181 14 0.5182 15 0.5183 16 0.5183 16 0.5183 17 0.5183 18 0.5183	9 2 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5														
च इ इ स्वयं अवस्य अवस्य अवस्य का अवस्य	7 -0.00 5 -0.00 9 -0.00 1 -	331 0.03 331 0.03 337 0.03 337 0.03 337 0.03 337 0.03 337 0.03 337 0.03 337 0.03 337 0.03 337 0.03 347 0.03 357 0.03	SS 0.10105 SS 0.10107 SS 0.10107 SS 0.10107 SS 0.10107 SS 0.10207	0 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 10 -0.007 10 -0.007	44 0.16244 77 0.16147 77 0.16147 78 0.16147 79 0.16147 55 0.16157 56 0.16157 57 0.16147 57 0.16147 58 0.16157 58 0.16157 58 0.16117 58 0.16117 59 0.16227 50 0.1	8 0 3494 0 3494 0 3494 0 3494 0 3494 0 3494 0 3495 0 3494 0 3495 0 3494 0 3495	10 0.5171 11 0.5171 12 0.5181 13 0.5181 14 0.5181 15 0.5181 16 0.5181 17 0.5181 18 0.5181 18 0.5181 19 0.5181	9 2 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5														
च च च व व व व व व व व व व व व व व व व व	7 -0.00 1 -0.00 2 -0.00 1 -0.00 1 -0.00 3 -0.00 3 -0.00 3 -0.00 4 -0.00 5 -0.00 5 -0.00 6 -	2311 2.03 2310 0.03 2310 0.03 2310 0.03 2311 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2317 0.03 2318 0.03 2318 0.03 2318 0.03 2318 0.03 2318 0.03 2318 0.03 2319 0	SS 0.101055 SS 0.101077 SS 0.101077 SS 0.101077 SS 0.102077 SS 0.10207 SS 0.102	0 -0.00779 9 -0.00779 9 -0.00779 9 -0.00779 9 -0.00779 0 -0.007799 0 -0.007799 0 -0.007799 0 -0.007799 0 -0.00	44 0.1624 77 0.16147 77 0.16147 77 0.16147 78 0.16147 79 0.16147 55 0.16157 56 0.16157 57 0.16147 58 0.16157 59 0.16157 5	8 0 3494	10 0.5171 11 0.5171 12 0.5181 14 0.5181 15 0.5181 15 0.5181 16 0.5181 17 0.5181 18 0.5181 19 0.5181 10 0.5181	9 2 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5														
वा विश्व के स्टूबर क स्टूबर के स्टूबर के	7 -0.00 5 -0.00 9 -0.00 1 -0.00 1 -0.00 1 -0.00 1 -0.00 1 -0.00 7 -	331 0.033 300 0.033 300 0.033 300 0.033 301 0.033 307 0.033 307 0.033 307 0.033 307 0.033 307 0.033 307 0.033 309 0.033	SS 0.101155 0.101157 0.102277 0.102277 0.102277 0.102277 0.102277 0.102277 0.102277 0.102277 0.102077	0 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 9 -0.0077 0 -0.0077	44 0.1824 55 0.1814 57 0.1814 57 0.1814 57 0.1814 58 0.1818 59 0.1818 50 0.1818 50 0.1818 50 0.1818 50 0.1818 50 0.1828 50 0.1828	8 0.3494	11 0.5171 11 0.5171 11 0.5171 11 0.5171 14 0.518 15 0.518 15 0.518 15 0.518 15 0.518 16 0.518 17 0.518 17 0.518 18 0.518	9 2 2 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6														
च च च व व व व व व व व व व व व व व व व व	7 -0.00 9 -0.00 1 -	231 2.03 2360 0.03 2370 0.03 2371 0.03 2377 0.03 2377 0.03 2375 0.03 2377 0.03 2372 0.03 2372 0.03 2372 0.03 2371 0.03 2372 0.03 2372 0.03 2373 0.	SS 0.1919 SS 0.1919 SS 0.1919 SS 0.1919 SS 0.1919 SS 0.1919 SS 0.1929 SS 0.1	0 -0.0077 9 -0.0077	44 0.1814 44 0.1814 55 0.1614 77 0.1614 77 0.1614 77 0.1614 77 0.1614 77 0.1614 77 0.1614 77 0.1614 78 0.1612	8 0.3494	11 0.5171 12 0.5171 13 0.5171 14 0.5191 15 0.5181 16 0.5	9 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5														
च च च स्थाप्य स्य स्थाप्य स्थाप्य स्थाप्य स्थाप्य स्थाप्य स्य	7 -0.00 9 -0.00 10 -0.00 1	2311 2,03 300 0,033 300 0,033 300 0,033 300 0,033 300 0,033 300 0,033 300 0,033 300 0,033 307 0,033 307 0,033 307 0,033 309 0,033	SS 0.101155 0.101167 0.1020 0.101167 0.1020	0 -0.0077 9 -0.0077 9 -0.0077 0 -0.0077	44 0.1624 14 0.1624 15 0.1614 16 0.1614 17 0.1614 17 0.1614 18 0.1614 18 0.1614 19 0.1624 11 0.1624 11 0.1624 11 0.1624 11 0.1624 11 0.1624 11 0.1624 11 0.1626	8 0.3494	11 0.51711 12 0.51711 13 0.51711 14 0.51915 15 0.51811	9 2 2 2 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6														
चन्न विश्व सम्बद्ध सम् सम्बद्ध सम्बद्ध	4 0.00 6 0.00 7 0.00 8 0.00 8 0.00 8 0.00 8 0.00 9 0.00	2311 2.03 2301 0.03 2301 0.03 2301 0.03 2377 0.03 2377 0.03 2375 0.03 2375 0.03 2375 0.03 2375 0.03 2375 0.03 2375 0.03 2376 0.03 2377 0.03 2389 0.03	SS 0.101155 0.10257 0.10257 0.10257 0.10257 0.10250 0.10250 0.10250 0.10257 0.	0 .0077 9 .0.0077 9 .0.0077 9 .0.0077 9 .0.0077 10 .0.0077 10 .0.0077 10 .0.0077 11 .0.007 12 .0.0077 13 .0.0077 14 .0.007 15 .0.007 16 .0.007 17 .0.007 18 .0.007 19 .0.007 10 .0.00	44 0.1624 55 0.1614 57 0.1614 77 0.1614 77 0.1614 77 0.1614 58 0.1619 59 0.1619 50 0.1619	8 0.3494	11 0.5171 12 0.5171 13 0.5171 14 0.5181 15 0.5	9 2 2 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6														
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चन्न विश्व सम्बद्ध सम् सम्बद्ध सम्बद्ध	4 -0.00 1 -0.0	331	SS 0.101155 0.102165 0.102165 0.10216 0.10226	0 -0.00777 9 -0.00779 9 -0.00779 0 -0.007790 0 -0.007790 0 -0.007790 0 -0.007790 0 -0.007790 0 -0.00790 0	44 0.1624 10 10 10 10 10 10 10 10 10 10 10 10 10 1	8 0.3494	10 0.51711 0.5	9														
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नार्यक्षा स्थापन के स	1	331		0 -0.0077 g -0.0	44 0.1814 44 0.1814 55 0.1814 57 0.1614 77 0.1614 77 0.1614 77 0.1614 77 0.1614 77 0.1614 77 0.1614 78 0.1612 78 0.1612 78 0.1612 78 0.1612 78 0.1612 78 0.1612 78 0.1612 78 0.1612 78 0.1622	8 0.3494	11 0,51711 12 0,51711 13 0,51711 14 0,51814 14 0,51814 15 0,51814 16 0,51814 17 0,51814 18 0,51814	9														

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453	-0.0303	0.0330	0.1097	0.0026	0,1679	0.3481	0.5133															
45	-0.0301	0.0333	0.1009	0.0031																		
450	-0.0298	0.0335	0.1102	0.0037	0.1589	0.3484	0.5133															
458	-0.0295	0.0337 0.0338	0.1105	0.0043	0.1690	0.3485	0.5133															
459		0.0340			0.1693																	
481	-0,0289	0.0343	0,1111	0.0054	0.1599	0.3467	0.5132															
462	-0.0265	0.0344	0.1115	0.0057 0.0061	0.1701	0.3489	0.5131															
464		0.0347		0.0064															 		 	
468	-0.0280	0.0351	0.1120	0.0071	0.1711	0.3491	0.5130															
468		0.0352					0.5130															
469 470	-0.0275	0.0358	0.1125																<u> </u>	 	 	
471	-0.0269	0.0359	0,1131	0.0090	0.1724	0.3493	0.5128															
473	-0.0267 -0.0265	0.0361	0.1133	0.009	0.1727					 					}							
474	-0.0262	0.0363	0.1138	0.010	1 0.1732	0.3496													 	 	 	
476	-0.0258	0.0366	0.1142	0.010	0.1738	0.3496	0.5124															
477		0.0368		0.011			0.5124		 													
479	-0.0250	0.0370	0.1150	0.012	0 0.174	0.349	0.5120		F									} -				
481	-0.0247	0.0374	0,1154	0.012	7 0.1751	0.349	0.5120															
483	-0.0241	0 0377	0 1150	0.013					}		 				 							
48A 485	-0.0238	0.0380	0.1162	0.014	2 0.1761		0.5118		-	1					 			-				1
486	-0.0234	0.0382	0.1166	0.014	5 0.175	0.349	0.5110			!									 		 	
487 488	-0.0229	0.0384	0.1171	0.015	4 0.1761 8 0.177		0.5113			1	1				1							
489	-0.0225	0.038	0.117	D.018	3 0.177	0.350	0.5112		-	 	-				 		 	 	 	 	 	
491	-0.0219	0.0390	0.1181	0.017	0.178	0.350	0.510								-							
492	-0.0214	0.0390	0,1180	0.017		0.349	9 0.5107 9 0.5100			<u> </u>					1							
494 495	-0.0210	0.039	0,1190	0.018	5 0,178		0.510		1			-		 -		-		 	1	 	 	
498	-0.0203	0.0397	0.119	7 0.019	4 0.179	0,349	0.510			!				\vdash					1			
497		0.039							+			 	 	 _ _ 	<u> </u>	<u> </u>		<u> </u>	 			
499 500	-0.019	5 0.040 2 0.040	0.120	5 0.020			0 0.509		Ţ <u> </u>	Ţ		F	F				 			 	} -	
501	-0.018	8 0.040	5 0,121	2 0.021	8 0,181	0.349	9 0.500							<u> </u>							1	
583 583		5 0.040 2 0.040					0.508		+	 	 -	 -	 	 	 		<u> </u>	1	1			
504	-0.017	8 0.041 4 0.041	0.122	2 0.023	0,182						Ţ				ļ			 	-	1	 	
505 508	-0.017	0.041	3 0.123	0.024	2 0.182	8 0.349	0.506								ļ				 			
507 508		7 0.041							┼	 		 		 	1	 	l					
509	-0.015	0.041	8 0.124	0.025	8 0.183	8 0.349	6 0.507	3	1					-								
510 511	-0.015	7 0.041 3 0.042	1 0.124	7 0.02	0.184	4 0.349		1			!==	1										
512 513	-0.014	9 0.042 5 0.042	3 0.125	1 0.027 5 0.027						 	╂	 	+-	┼	 			 	 	 	1	1
514	-0.014	1 0.042	8 0.125	0.020	4 0.185	5 0.349	6 0.508		1	#===	$\downarrow =$							1		 	-	-
515 518	-0.013	7 0.042	9 0,126	7 0.02	25 0,186	2 0.349	5 0.508	2						1								
517 518	-0.012 -0.012	9 0.043 5 0.043	0 0,127	5 0.030					-	1	+	+	 	 	 		 		1	<u> </u>		<u> </u>
519	-0.012	2 0.043 7 0.043	3 0.127	8 0.031	11 0,187	2 0.349	0.505	5		1	-	-	-		-		=	-				+
520 521	-0.011	4 0.043	6 0.128	6 0.03	22 0.187	9 0.349	0.505				1			=	1	-		-	1	1	1=	1
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525 526	-0.000	H D.044	3 0.130	6 0.03	(9) Q.185	0.34	0.503	8	1	1	-		1		1				-	1-	-	1
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529	-0.006	2 0.044 8 0.044	6 0.131	8 0.03	93 0,190	4 0.34			Ţ==	7	7	1		-			+	-				
530 531	-0.007	75 0.044	6 0,132	5 0.03	73 0.191	1 0.34	6 0.50	4	1	-	1	 	#==	1	-	-		#=	1	-	_	7==
532 533	-0.000	71 0.044 58 0.044	0.133	2 0.03	81 0.19	5 0.34	0,501	8			1											1
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535 536	-0.005	6 0.045	3 0.134	4 0.03	96 0.12	5 0.34	0.500	6	 	1	 	 			+	-		1-	-	-	1	
537 538	-0.004	3 0.042 10 0.043	55 0.135	0.04	06 0.19	0.34	0.500	3						1		=	二	1=	\pm	 		
539 540	-0.00	18 0.045	6 0.135	4 0.04	0.19	2 0.34	79 0.500 77 0.49	2L	+	+	+	+	+	+	+		1	+		-	1-	\pm
541	-0.000	20 0.045	7 0.130	2 0.04	19 0.19	38 0.34	78 0.49	6	 	-	+	-	1	\mp	-		-	+	=	#	-	
542 543	-0.003	35 0.045 31 0.045	8 0,136	0.04	28 0.19	13 0.34	74 0.49	9	1		1	1	#	#	1	1==	1	#		#	1	1
544 545	-0.002	27 0.045 24 0.045	6 0.137	0.04	33 0.19	10 0.34	72 0.49			-	4	-	+	1-				+	+		1	1
548	-0.001	18 0.046	0.13	2 0.04	42 0,19	51 0.34	70 0.49	0	-	4	1	 	 	-			-		-	F-	=	
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\$49 \$50	-0.000	0.04	53 0.139	0.04	56 0.19						+		+		1	 				+	1	1
551	0.00	03 0.04	0.14	0.04	85 0.19	0.34	64 0.49	i3 ·		7-	 			-			+	T	-	-		-
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554	0.00	14 0.046 18 0.046	17 0 14	14 0.04	81 0.19		80 Q.49	3	-	+	+	+	+	+	+	+	+	+		+		
\$50 \$50	0.000	23 0.04	0.14	23 0.04	91 0.19	0.34	56 0.49	4	4==	#=	1	4	 	 	-	7===	-	-	1==	-	-	
557 558	0.00	27 0.04 32 0.04	0.14	32 0.06	01 0.19	65 0.34	53 0.49	17						1			士	$\downarrow =$		士	\pm	1==
650	0.00	38 0.04	0.14	38 0.05	07 0.19	62 0.34			 	-		+	+	+	+-	+	+	+-	+			1
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564	0.00	ALL ON	711 0.14	811 0.05	33 0.20	02 0.34	41 0.49	10	7	7-	7==	7-	1-	1-		+	+-	+=	-		-	
565	0.00	67 0.04	721_0.14	87 0.00	0.20	<i>⇔₁</i> 0.34	38 0.49	471					<u> </u>	~——								

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	В		D	E	F	G	Н			К			N	0	P	- 0 - 1				<u> </u>	<u>v</u>
500 0 0072	72 0.0472	0.1472	0.0543											}							
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	0.0472			0.2014																	
570 0.0090	901 0.0471	0.1490	0.0581	0.2015		0.4881															
571 0.009	95 0.0471	0.1495	0.0568	0.2018	0.3424	0.4877														 	
	28 0.0471						لـــــا														
	02 0.0470		0 0573	0.2021						 											
574 0,010 575 0,011	06 0.0470	0.1506	0.0576	0.2023																	
	13 0.0489			· 0.2026		0.4856									i						
577 0.011	17 0.0458	0.1517	0.0588	0.2027																	
578 0.012	20 0.0488	0.1520	0.0585	0.2025		0.4848															
579 0.012	24 0 0487	0,1524	0.0591	0.2029	0.3405	0.4844															
580 0.012	26 D.0487	0.1526	0 0592																		
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	34 0.0465																				
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585 0,013	38 0.0483	0.1538	0.0601	0.2032	0.3395	0.4825															
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587 0,014	42 0.0482	0.1542	0.0604				<u></u>														
588 0.014 589 0.014	45 0.0482 45 0.0462	0.1545	0.0608	0.2034														ļ			
590 0.014	48 0.0461	0.1548	0.0608			0.4813					 										
	50 0.0481																				
592 0.015	53 0.0460	0,1563	0.0813	0.2037	0.3384	0.4808														ļ	<u> </u>
	58 0.0480			0.2038														<u> </u>			}
594 0.015	58 0.0459	0.1558	0.0817											ļ	<u> </u>				 		
595 0.016	81 0.0480 64 0.0458	0.1581	0.0621															 			
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	70 0.0458			0.2043																	
599 0.024	45 0.0433	0.1645	0.0678	0.2058	0.3311	0.4588															
600 0.025	250 0.0431	0,1650	0.0681	0.2055	0.3306	0.4681				!				ļ			<u> </u>			 	
601 0.025	53 0.0429	0,1653	0.0681								 				 	<u></u> -		 	1		
502 0.025	50 0.0428	0.1656	0.0682						 					 	 		 	1	 	 	
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607 0.027	270 0.0416	0.1670	0.0687	0.2051	0.3281	0.4646									<u> </u>	<u> </u>	ļ		 	 	
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514 0.02	283 0.0407	0.1683	0.0590	0.2049	0.3258	0.4625											!		 	 	
615 0.028	284 0.0408	0.1884	0.0689	0.2047	0.3264					1					├ ──		 	 			
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622 0.03	303 0 0396	0.1703	0.0701	0.2050	0.3246	0.450	5														
623 0.03	306 0.0397	0.1708	0.0702		0.3244													 		 	
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626 0.03	304 0.0388 298 0.0383	0.1704	0.0502					 	 	 	+	 	 		1		 	 		 	
628 0.02	293 0.0379	0.1603	0.0072					 	 	1.	 	1	 	 		1	1				
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630 0.02	286 0.0375	0.1586	1 0,0880															 		. 	
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634 0.03	329 0.0391 352 0.0400	0.1753	0.0752						+												
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	428 0.0424	0.1826	0.0619	0.2090	6 0.322	0 0.453	2														
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* D414 U.O4	471 0.0435	0.185	0.085	0.2096 0.2116 0.2130 1 0.2150 7 0.2171	6 0.322 6 0.321 8 0.321 8 0.320 1 0.320	0 0.453 5 0.451 0 0.449 4 0.447 0 0.448	2 3 8 9														
	490 0.0439	0.185 0.187 0.189	0.0652 0.0681 0.0907 0.0907	0.2096 0.2116 0.2138 0.2156 0.2176 0.2176	6 0.322 6 0.321 8 0.321 6 0.320 1 0.320 4 0.319	0 0.453 5 0.451 0 0.449 4 0.447 0 0.448	2 3 8 9 4														
642 0.05	471 0.0435 490 0.0435 506 0.0442	0.185 0.187 0.1890 0.1900	0.0852 0.0881 0.0907 0.0929 5 0.094	0.2090 0.2110 0.2130 1 0.2150 7 0.2171 0.2164 7 0.219	6 0.322 8 0.321 8 0.320 8 0.320 1 0.320 4 0.319 4 0.318	0 0.453 5 0.451 0 0.449 4 0.447 0 0.448 4 0.444 9 0.443 5 0.442	21 33 66 79 44 199 195 195 195 195 195 195 195 195 195														
842 0.05 843 0.05 844 0.05	490 0.0439 506 0.0444 519 0.0444 531 0.0448	0.185 0.187 0.1890 0.1900 0.1900 0.1900	0.0652 0.068 1 0.060 1 0.060 5 0.062 5 0.065 1 0.067	0.2090 0.2118 0.2133 1 0.215 7 0.217 0 0.218 7 0.219 0 0.220 7 0.221	6 0.322 8 0.321 8 0.320 1 0.320 1 0.320 4 0.319 4 0.315 3 0.318	0 0.453 5 0.451 0 0.449 4 0.447 0 0.448 4 0.444 9 0.443 5 0.442	21 3 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9														
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MAC 0.05	M00 0.0455656 0.0444	0 0.185 0 0.187 0 0.187 0 0.187 0 0.187 0 0.187 0 0.187 0 0.183 0 0.194 0 0.191 0 0.194 0 0.191 0 0.194 0 0.197 0 0.185 0 0.196 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.197 0 0.186 0 0.198 0 0.198 0 0.198 0 0.198 0 0.198 0 0.198 0 0.198 0 0.198	8 0.08558 0.00558 0.005	0.2096	6 0,322(6) 6 0,322(6) 6 0,321(6) 6 0,321(6) 6 0,321(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,310(6)	0 0 0,4530 0 0 0,4530 0 0 0,4694 0 0 0 0,4694 0 0 0 0,4694 0 0 0 0 0,4694 0 0 0 0 0,4694 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 3 3 6 9 9 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9														
Marie O.05	M00 0.0455656 0.044666	0 0.185 0 0.187 0 0.189	8 0.08558 0.08588 0 0.08588 0 0.08588 0 0.08588 0 0.08588 0 0.0858	0.2096 0.2013 0.217 0.	6 0, 32226 6 0, 32216 6 0, 32216 6 0, 32216 6 0, 32216 6 0, 32206	00 0,4530 00 0,4530 00 0,4694 0,4474 0,4474 0,4474 0,4484 0,4434 0,4434 0,4434 0,4434 0,4434 0,4344 0,4344 0,444	22 3 3 6 6 9 9 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9														
Mar. 0.05	MOD 0.045565 0.044565 0.0	0 0.185 0 0.187 0 0.185 0 0.187 0 0.189 0 0.189 0 0.189 0 0.189 0 0.199	8 0.08558 0.00858 0.00	0.2096 0.2013 0	6 0,322(6) 6 0,322(6) 6 0,321(6) 6 0,321(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,310(6)	00 0,4535 00 0,4536 01 0,4494 02,4494 02,4494 03 0,4494 04 0,4494 04 0,4494 05 0,4494 06 0,4494 07 0,4494 08 0,4494 09 0,4994 09 0	22 3 3 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9														
Mar. 0.05	0.045569)	8 0.08558	0.2096	6 0,322(6) 6 0,322(6) 6 0,321(6) 6 0,321(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,320(6) 6 0,310(6)	00 0,4535 00 0,4535 01 0,4536 01 0,4464 02 0,4464 02 0,4464 03 0,4464 04 0,4474 05 0,4464 07 0,4464 08 0,4464 09 0,4464	22 3 3 6 6 9 9 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9														
642 0.05 643 0.05 644 0.05 645 0.05 646 0.05 647 0.05 648 0.05 649 0.05 659	M00 0.045:565 0.044:659 0.045:659 0.044:659 0.	0.00	0.0855	0.2096 0.2096 0.2013 0.2096 0.2013 0.2096 0.2013 0.2096 0.2013 0.2096 0.2013 0.2096 0	6 0,322(6) 6 0,322(6)	00 0,4530 01 0,4530 02 0,4694 03 0,4494 04 0,4474 04 0,4474 06 0,4484 07 0,4484 08 0,4436 09 0,4436 09 0,4436 09 0,4436 09 0,4436 09 0,4436 09 0,4336 09 0,4336	22 3 3 6 6 9 9 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9														
642 0.05 643 0.09 644 0.05 645 0.05 646 0.05 647 0.05 648 0.05 649 0.05 659 0.05 651 0.05 652 0.05 653 0.05 653 0.05 654 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 655 0.05 657 0.05 657 0.05 657 0.05 657 0.05	0.0451650 0.0451	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0.08558	0.2096	6 0,322(6) 6 0,322(6) 6 0,323(6) 6 0,323(6) 6 0,323(6) 6 0,323(6) 6 0,323(6) 6 0,323(6) 6 0,323(6) 6 0,313(6)	00 0,4530 01 0,4530 02 0,4494 04 0,4474 04 0,4474 05 0,4434 07 0,4434 08 0,4434 09 0,444 09 0,4434 09 0,4444 09 0,4444 09 0,4444 09 0,4444 09 0,4444 09 0,4444 09 0,4444 0	22 3 3 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9														
642 0.05 643 0.05 644 0.05 645 0.05 646 0.05 646 0.05 647 0.05 649 0.05 659	M00 0.045:565 0.044		0.0855	0.2096 0	6 0.32226 6 0.32216 6 0.32216 6 0.32216 6 0.32216 6 0.32216 6 0.32201 1 0.3200 1 0.3	00 0,4530 01 0,4530 02 0,4544 03 0,4474 04 0,4474 04 0,4474 05 0,4434 06 0,4434 07 0,4434 08 0,4434 09 0,4434 09 0,4434 09 0,4434 09 0,4434 09 0,4334 09 0,4344 09 0,4344	22 3 3 6 6 9 9 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9														
642 0.05 644 0.05 645 0.05 646 0.05 647 0.05 648 0.05 649 0.05 649 0.05 659 0.05 659 0.05 651 0.05 652 0.05 653 0.05 653 0.05 653 0.05 654 0.05 655 0.05 655 0.05 655 0.05 657 0.05	0.045555	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0.08558	0.2096	6 0,322 6 0 0,322 6 0 0,323 6 0 0,333 6 0 0,33	00 0,4535 00 0,4536 01 0,4494 04 0,4474 04 0,4474 06 0,4484 07 0,4484 08 0,4484 09 0,4484	22 3 3 6 6 7 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1														
642 0.05 643 0.05 644 0.05 645 0.05 646 0.05 646 0.05 647 0.05 648 0.05 649 0.05 659	M00 0.045:565 0.044	0.185	0.0855	0.2096	6 0,322(6) 6 0,322(6)	00 0,45350 00 0,45350 00 0,45360 00 0,44540	22 3 3 6 6 9 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4														

Column		A	В	C	0	E	F.	G	H	1	3	к		м	N	0	P	0	R	5	Ť	U	V
Column C																							
10						0.2217	0.3119																
Column C		0,0800	0.0414	0,2000	0,1014	0.2214	0.3114																
Column C	683	0.06011	0.0412	0.2001	0.1014	0.2213	0,3112	0.4311															
100 100		0.0801	0.0410	0.2001	0.1012	0.2211	0.3110												<u> </u>				
Column C		0.0502	0.0406	0.2002	0,1010	0.2200																	
Control Cont	687	0.0603	0.0404	0.2003	0.1005	0.2205	0.3102																
The color	688					0.2203	0.3100	0.4299															
Company Comp	559	0.0603	0.0400	0.2003	0,1003	0.2201																	
Control Cont																							
Dec Cont C		0.0603	0.0393	0.2003	0.0996	0.2195	0.3091	0 4290												1			
Main Control	893	0.0603	0.0391	0.2003	0.0994	0.2192	0.3089	0.4285															
						0.2189	0.3067													<u> </u>			
Column C																				 			
The cost	697	0.0500	0.0381	0,2000	0,0982		0.3081	0.4281															
The content of the	698	0.0599	0.0379	0.1999	0.0978	0.2178														1			ļ
The content of the	690	0.0599	0.0376	0,1999	0.0975										ļ	ļ			 	 			
1	701	0.0504	0.0371	D 1994	0.0905	0.2168	0.3074	0.4276							·	 				 			
1	702	0.0593	0.0368	0.1993	0.0981	0.2165	0.3072	0.4276												1			
100 100						0.2181	0.3070	0.4275							 	<u> </u>	<u> </u>		 	}			ļ
The color					0.0951	0.2157													 	 			
The content of the	708	0.0682	0.0358	0.1962	0.0938								-		 	-				<u> </u>			
Total Control Contro	707	0.0580	0.0354	0.1980	0.0934	0,2144									·								
Trick Control Contro										<u> </u>					 	<u> </u>			 	!			
Till Good										├	-	H	<u> </u>	 	 	 	 		 	 			
10.0					0.0910	0.2120	0,3058	0.4274															
Tit Good Good Color	712	0.0564	0.0339	0,1954	0.0903	0.2121	0,3057	0.4275							1				\vdash	\vdash			
Tig Goog Goog Coop C	713	0.0550	0.0338	0.1960	0.0695					<u> </u>		 		 	 	├				 	 -		}
100 Color												 	1	<u> </u>	 				<u> </u>				
Trip Gold	718	0.0547	0.0326	0.1947	0.0673	0.2100	0,3052	0.4279															
200 0.003 0.004 0.005	717				0,0005	0.2094	0.3052	0,4280						<u> </u>				 	1	 			
Total Court Cour		0.0538	0.0316	D 1013	0.0667	0.2000				 	 	 -	 	 		 	1-	 -		 		 	
Text						0.2077	0.3049																
1721 0.0511 0.0521 0.0511 0.0512 0.2551 0.2552 0.2	721	0.0522	0 0300	0.1922	0.0031	0.2070	0.3048									\vdash			\vdash			}	
Trial		0.0517	0.0300	0.1917	0.0622					ļ	 			 	├	├ ──	 	 		 			
Trial		0.0501	0.0301	0.1905	0.0012					 		 	 			 	 			 	 		
Trial		0.0600	0.0294	0.1900	0.0794	0.204	0.3044	0.4294															
Transport Tran	726	0.0494	0.0291	0.1594	0.0785	0.203	0,3044	0,4297												1			
170 100 107															 	 	 					 	
1700 0.0497 0.0275 0.0575 0.0752 0.0205 0.2041 0.4008 0.0075 0.0075 0.0005 0.0		0.0474	0.0275	0.1001	0.0753					 	 	 		 	 	 	 		 	1		 	
1731 0.0561 0.0771 0.0561 0.0772 0.0564 0.0501 0.0																							
Table October Octobe	731															ļ			<u> </u>	ļ	ļ	Į	ļ
		0.0454	0.0267	0.1854	0.0721	0.199				 	 	 	 	 	├ -	├	 		 		 		
Type										 	 	 	 			 	 		 	 	 		
Triple Descript	735	0.0433	0.025	0.1833	0.0888	0,197	2 0,3031	0.432															
288 0.9416 0.055 0.150 0.050 0.150 0.950 0.450 0.950 0.450 0.950 0.450 0.950	730	0.0425	0.0251	0.1825	0.0678	0.198				1	-				 		↓	<u> </u>	├ ──		<u> </u>	 	 -
1783 0.0403 0.0290 0.11403 0.0494 0.1490 0.027 0.14304 0.1490 0.2490 0.1290 0.1291 0.0291 0.0291 0.													 	 	 	 				 	}		·
140 0.0356 0.0256 0.0756 0.0277 0.0276 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0277 0.0276 0.0276 0.0277 0.0276 0.0276 0.0277 0.0276 0.0276 0.0276 0.0277 0.0276 0.0276 0.0276 0.0276 0.0277 0.0276 0.0276 0.0276 0.0276 0.0277 0.0276 0.0276 0.0276 0.0276 0.0276 0.0276 0.0277 0.0276 0.02	739	0.0403	0.0235	0.1503	0.0542	0.194				 	1		 	<u> </u>	1	+			 				1
Table Country Countr	740	0.0394	0.0234	0.1794	0.0628	0.193	1 0.3037	0.4340)														
Test 0.0000 0.0	741													 		ļ	 		 	 	 		
Text 0.0036 0.0775 0.1785 0.0787 0.1894 0.0037 0.4595 0.0037 0.4595 0.0037 0.4595 0.0037 0.0038 0.0	742	0.0378	0.0220	0.1772	0.0804	0.191				 	 	 	 	 	 	┼	 		 	 	 	 	
1/40 0.0940 0.0207 0.17400 0.0547 0.1677 0.3027 0.4586	744	0.0358	0.021	0.1752	0.0573	0,189																	
1471 0.0398 0.0390 0.1789 0.0440 0.1872 0.307 0.4399																	I			-			
Table 0.0027 0.0020 0.01727 0.0528 0.1053 0.3058 0.4373	740	0.0340	0.0207	0.1740	0.0547					 			 	 	 	 							
760 0.0316 0.0196 0.1716 0.0514 0.1855 0.3005 0.4377	745	0.0327	0.020	0.1727	0.0526	0.106				 	 	 	1	 	1	1	 	 	1	1		1	
TS 0.0300 0.0100 0.1700 0.0485 0.1856 0.3505 0.4357 0.4352 0.0101 0.1855 0.0470 0.1855 0.0350 0.4357 0.0271 0.0175 0.0594 0.1855 0.3050 0.4352 0.0271 0.0175 0.0594 0.1855 0.3050 0.4357 0.0285 0.0470 0.1855 0.0595 0.1855 0.0395 0.1855 0.0595 0.1855 0.0595 0.1855 0.0595 0.1855 0.0595 0.1855 0.0595 0.1855 0.0595 0.1855 0.0595 0.0595 0.1855 0.0595 0.0595 0.1855 0.059	749	0.0318	0.019	0.1716	0.0514	0.185																	
TSS 0.0259 0.0191 0.1569 0.0470 0.1625 0.3005 0.4307		0.0310	0.019	0,1710	0.0501	0,184				 	ļ	 	 	├ ──	├ ──		 		├	 		 	 -
TSS 0.02778 0.01775 0.1078 0.0454 0.11015 0.3000 0.4497 TSS 0.0250 0.0176 0.1050 0.0497 0.1700 0.3000 0.4402 TSS 0.0250 0.0160 0.1500 0.0427 0.1700 0.3000 0.4401 TSS 0.0251 0.0162 0.1651 0.0413 0.1780 0.3000 0.4401 TSS 0.0251 0.0162 0.1651 0.0413 0.1780 0.3000 0.4411 TSS 0.0251 0.0162 0.0500 0.1751 0.3000 0.4411 TSS 0.0252 0.0161 0.1620 0.0000 0.1755 0.3000 0.4410 TSS 0.0250 0.0161 0.1620 0.0000 0.1755 0.3000 0.4410 TSS 0.0220 0.0161 0.1620 0.0000 0.1750 0.3000 0.4422 TSS 0.0250 0.0161 0.1600 0.0050 0.1740 0.3000 0.4422 TSS 0.0250 0.0161 0.1600 0.0050 0.1740 0.3000 0.4428 TSS 0.0250 0.0161 0.1600 0.0050 0.1740 0.3000 0.4428 TSS 0.0250 0.0161 0.1600 0.0050 0.1740 0.3000 0.4428 TSS 0.0167 0.0137 0.1601 0.0050 0.1740 0.3007 0.4442 TSS 0.0177 0.0250 0.1677 0.0050 0.1774 0.3007 0.4442 TSS 0.0161 0.0110 0.1553 0.0250 0.1720 0.3007 0.4442 TSS 0.0164 0.0110 0.1553 0.0250 0.1740 0.3007 0.4445 TSS 0.0164 0.0110 0.1553 0.0250 0.1780 0.3007 0.4445 TSS 0.0164 0.0110 0.1553 0.0250 0.1500 0.3007 0.4445 TSS 0.0164 0.0110 0.1550 0.0250 0.1500 0.3007 0.4455 TSS 0.0164 0.0110 0.1550 0.0250 0.1500 0.3007 0.4455 TSS 0.0165 0.0110 0.1550 0.0250 0.1500 0.3007 0.4455 TSS 0.0165 0.0110 0.1550 0.0250 0.1500 0.3007 0.4455 TSS 0.0165 0.0160 0.1540 0.0050 0.1550 0.3000 0.4655 TSS 0.0165 0.0165 0.1550 0.0050 0.1550 0.3000 0.4655 TSS 0.0165 0.0050 0.1540 0.0050 0.1550 0.3000 0.4657 TSS 0.0050 0.0050 0.1550 0.0050 0.1550 0.3000 0.4657 TSS 0.0050 0.0050 0.1450 0.0050 0.1550 0.3000 0.4577 TSS 0.0050 0.0050 0.1450 0.0050 0.1550 0.3000 0.										 	1	}	 	┼──	1	+	 	1	+	 	1	+	
T951 0.0268 0.0170 0.1603 0.1605 0.0205 0.3008 0.4402 0.0206 0.0	753	0.0278	0.017	0.1875	0.0454	0.161		0,430	/														
Test Occess Octess Oct	754	0.0268	0.017	0.1068	0.0439	0.180	5 0.303	0.440	2			1	-	+				-	1	+	 	ļ	-
765 0.0241 0.0157 0.1540 0.0396 0.1775 0.3030 0.4445	756	0.0260	0.0186	0.1580	0.0427	0.179				 		 	+	{		+	 		 		 	+	+
Times Control Contro	 	0.0241	0.015	7 0.1641	0.0394	0.177				1	1				1	1	1	1				1	1
789	758	0.0229	0.015	0,1021	0.0380	0.176	5 0.303	7 0.442	2		-	1							1	1		 	
Test 0,0001 0,0137 0,1501 0,0332 0,1732 0,3037 0,4440										 	 	 		 	+	+	 		 	 	+	 	
Trig. 0.019(1) 0.0132 0.1529 0.0223 0.1728 0.3037 0.4442		0.0200	0014	7 0.160	0.033	0.174	3 0.303	7 0443	5	+	 	1	1	1	 	+	+		1	1		1	1
783 00177 00125 0.1577 0.0303 0.1714 0.3037 0.4440	762	0.0191	0.013	0.150	0.032	0,172	8 0.303	7 0.444	2														
765 0.0164 0.0114 0.1524 0.0200 0.1501 0.0000 0.3037 0.4440 0.1576 0.0000 0.1541 0.0000 0.3037 0.4440 0.1576 0.0000 0.1541 0.0000 0.1541 0.0000 0.3037 0.4440 0.1576 0.0000 0.1541 0.0000 0.1541 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.0000 0.1501 0.00000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.	763	0.0177	0.012	5 0.157	0.0303	3 0.171	4 0.303	7 0.444	3	1		+	+		1	4	+		 		+	-	
Total Control Contro		0.0163	0.011	0.1563	0.0281					 	 		+	 	+	 		 	1	1	+	1	+
Total	188	0.0149	0011	2 0.154	0.026							1	1		1	1							
T88	707	0.0141	0.010	8 <u>) 0,1541</u>	0.0249	0.187	8 0.303	8 0.446	3		1		,	1	1						4		+
770 0.0101 0.0000 0.1501 0.0100 0.1503 0.03030 0.4488	768											1	}	 	 	1			+			 	+
771 0.0092 0.0065 0.1492 0.0178 0.1830 0.3039 0.4463										-	 	1	 	1	+	+	+	1	1	 	1	 	
777. 0.0064 0.0031 0.4454 0.0168 0.1623 0.3003 0.4407		0.0002	0.000	5 0 149	0.0170																		
774 0.0050 0.0059 0.1455 0.01520 0.3040 0.4510	772	0.0064	0.008	1 0.148	6 0.0100			0.449	7		1	-	1	+	1	1	1					1	
775 0.0040 0.0053 0.1440 0.0100 0.1586 0.3040 0.4517		0.0072	0.007	0.147	0.014					+	 			 	+	+	+				-}		
777 0.0032 0.0026 0.1492 0.0099 0.1557 0.3040 0.4524 (777 0.0010 0.0050 0.1507 0.3040 0.4524 (777 0.0010 0.0050 0.1507 0.3040 0.3040 0.4531 (778 0.007) 0.0044 0.1407 0.0051 0.1548 0.3041 0.4537 (778 0.007) 0.0044 0.1407 0.0051 0.1548 0.3041 0.4537 (778 0.007) 0.0033 0.1357 0.0030 0.1557 0.3041 0.4537 (778 0.002) 0.0033 0.1354 0.0018 0.1529 0.3041 0.4549 (778 0.002) 0.0027 0.177 0.177 0.0000 0.0030 0.1500 0.3041 0.3041 0.3041 0.4505 (778 0.000) 0.0021 0.1500 0.3041 0.3041 0.3041 0.4505 (778 0.000) 0.0021 0.1500 0.3041 0.4505 (778 0.000) 0.0021 0.1500 0.3041 0.4505 (778 0.000) 0.0021 0.1365 0.0000 0.1500 0.3041 0.4505 (778 0.000) 0.0000 0.0000 0.1500 0.3041 0.4505 (778 0.000) 0.0000 0.0000 0.1500 0.3041 0.4502 (778 0.000) 0.0000 0.0000 0.1317 0.0000 0.4500 0.4500 0.0000 0.0000 0.1317 0.0000 0.4500 0.3041 0.4503 (778 0.0000 0.0000 0.0000 0.1317 0.0000 0.4500 0.3041 0.4503 (778 0.0000 0.0000 0.0000 0.1317 0.0000 0.4500 0.3041 0.4503 (778 0.0000 0.0000 0.0000 0.1317 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.00000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.00000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.00000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.00000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.00000 0.3041 0.4503 (778 0.0000 0.0000 0.1317 0.00000 0.3041 0.4503 (778 0.0000 0.0000 0.0000 0.1317 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.0000 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.0000 0.3041 0.4503 (778 0.0000 0.0000 0.0000 0.3041 0.4503 (778 0.0000 0.00										+	1	 	1	 	1	+	1	1	1			+	1
777 0.0019 0.0050 0.1419 0.0059 0.1559 0.3040 0.4531 778 0.0007 0.0044 0.4077 0.0051 0.1584 0.3041 0.4537 779 0.0007 0.0044 0.4077 0.0055 0.1587 0.3041 0.4537 780 0.0008 0.0039 0.1367 0.0039 0.3567 0.0056 0.1587 0.3041 0.4543 781 0.0029 0.0027 0.1372 0.0001 0.1513 0.3041 0.4549 781 0.0029 0.0027 0.1372 0.0001 0.1513 0.3041 0.4525 782 0.0041 0.0021 0.1369 0.00020 0.1500 0.3041 0.4525 783 0.0056 0.0014 0.1365 0.00020 0.1500 0.3041 0.4525 784 0.0009 0.0007 0.1315 0.00020 0.1473 0.3041 0.4555																							
779	m	0.0019	0.005	0) 0.1411	0.008	0.155	0.304	0 0.453	1		4	1		1		1			1	+==	4	+	+
Teg	770	0,0007	0.004	4 0,140	0.005					+	+		+		 	1	 		+				
781 -0.0029 (0.0027 0.13072 -0.0001 0.1513 0.3041 0.4555 782 -0.0041 (0.0021 0.1369 -0.0020 0.1500 0.3041 0.4562 783 -0.0058 (0.0014 0.1365 -0.0040 0.1497 0.3041 0.4562 7784 -0.0069 (0.0070 0.1301 0.0002 0.1473 0.3041 0.4576 7785 -0.0060 (0.0000 0.1317 0.0002 0.1473 0.3041 0.4576 										 	1	1		+	+		 	+			 	+	
722	781	-0,0028	0.002	7 0.137	2 -0.000	1 0.151	3 0.304	1 0.456	5														
783 -0.0054 0.0014 0.1346 -0.0040 0.1487 0.3041 0.4598	782	-0.0041	0.002	1 0.135	-0.002	0 0.150	0.304	1 0.458	2	+	+	+		 	+	+	4	1	4			1	1-
785 -0.0083 0.0000 0.1317 -0.0083 0.1458 0.3041 0.4583										 	 		+	+	+	+	4	 	+-		 -	+	+
Pres - 2000 - 2001 - 2007 - 20	 	-0.0000	0000	0.133	7 -0.00					1	1	1	1	<u> </u>	1	1	1	1	1				1
760 -0.0000 -0.0000 0.1301 -0.0107 0.1443 0.3041 0.4591	766	-0.0000	-0.000	e 0.130	-0.010	71 0.144	3 0.304	1 0,450	11			1											
767 -0.0114 -0.0016 0.1286 -0.0130 0.1427 0.3041 0.4586	767	-0.0114	-0.001	6 0.120	0.013	0 0.142	27 0.304	1 0.450	6	 		-			4		4	-	+		-		-
755 -4.0722 -0.0024 0.1272 -0.0153 0.1412 0.3940 0.4694										· }	 	1	1	 	+	+	+	 	+	-		+	1
779	780	-0.0157	2 -000	7 0 124	-0.018	5 0.132				1	1												
791 -0.0159 -0.0042 0.1241 -0.0201 0.1379 0.3039 0.4017)	791	-0.0150	-0.004	2 0 124	0.020									\bot					\bot				

Total Control Contro		<u> </u>	В	C	0	E	F	G	н		7	к	L	M	N	0	P	ā	R	s	7	U I	V
15	792 -	0.0156	-0.00431	0.1244	-0.0199	0.1379	0.3035	0.4813															
19																							
10																							
10	796	0.0009	0.0021	0.1400	0.0029	0.1525	0.3015	0.4512															
200 - 100																							
100 100	700	0.0007	0.0064	0,1497	0.0161																		
Section Control Cont	800	0.0095	0.0005	0,1495	0.0161																		
100 100																							
100 100		0.0068	0.0067	0.1488	0.0155	0.1611																	
50	804	0.0000	0.0087	0.1486	0.0154													~					
100 100												-				-							
500 0000 1000 1000 1000 1000 1000 1000	807	0 0077)	0.0066	0,1477	0.0143	0.1505	0.3028	0,4490															
100 0000 0001 0001 0000 0000 0000 0000																							
100 100	810	0.00681	0.0054	0,1466	0.0130																		
100 100	011	0.0061	0.0063	0.1451	0.0124											ļ				<u> </u>			
100 100																							
100 100	814	0 0048	0,0060	0,1448	0.0106	0,1584	0.3036																
100 0000 0000 0000 0000 0000 0000 0000									·							 							
100 100	817	0.0036	0.0057	0 1435	0.0092	0,1574	0.3039	0.4521															
200 0.000						0.1571	0,3039			·		!		<u></u>		}							
503 0000 1 00000 1 00000 1 00000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 00	820	0.0024	0.0053	0.1424	0.007																		
100 100	521	0.0019	0.0052	0,1419	0.0070	0.1561	0.3042																
503 - 0.0001 0.0001									 								<u> </u>	<u> </u>	1				<u> </u>
Control Cont	624	0.0006	0.0048	0,1405	0.005	0.1550	0.3045	0.4543															
\$20. 46001 00004 0.1000 0.0000 0.1000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00										l	<u> </u>					 	 		 	 -	 		
100 100	527	0.0007	0.0044	0.1393	0.003	0,1540	0.3047	0.4551															
100 100		0.0013	0.0042	0.1387	0.0021							1				-			 		 	 -	
101						0.152																	
100 1000 1	831	0.00251	0.0038	0,1375	0.001	0.152	0.3060	0.4563									 	 					
Color Colo										 	 	 	 	 	 -	 	 	 	 		 		
1803 0.0000 0.0	534	0.0041	0.0033	0.135	-0.000	0,151	0.305	0.4574															
100 1000 1	835	0.0045	0.0032	0.135	-0.0014	0.150	0.305			<u> </u>	 	 		 		 	 	 	 	 	 	 	
100 100	837	0.0053	0.0029	0.1347	-0.002	0.150	0.305	0,4582	-														
100 10007	838	0.0058	0.0027	0.1342	-0.003	0.1490														 	 	 	
Section Control Cont												 							1				
Section Control Cont	841	0.0070	0.0022	0.133	-0.004	0.148	0.305	7 0.4597															
Dec	542	-0.0074	0.0020	0.132	0.005	0.148				 	 	 	 	├	 	 	 	 		 	├──	 	
Description	844	-0.0086	0.0017	0.131	-0.0069	0.1474	0.306	0.480															
Control Cont										 	<u> </u>	 	ļ		 	 	 	 	 	 	 		
Color Colo											 	 	 	 									
The color	845	0.0103	0.0011	0,129	-0.009	0,145	0.306	0.461	/			=											
100 100	850	-0.0100	0.0000	0.129	-0.010					 	 	┼			}				 		 		
Section Control Cont	851	-0.0117	0.0008	0.125	3 -0.011	0.144	6 0.306	0.482	3														
CSS 2.0130 0.0022 0.1270 -0.0120 0.4502 0.4503 0.4502 0.4503 0.4	852	-0.0121	0.0000	0.127	-0.011					 	<u> </u>	 	 	 	 	 		 	 	 -	 	 	
155 0.0146 0.0000 1.2500 0.0140 0.1420 0.0000 0.4500 0.00					00.012	0 143	7 0.306	7 0.483	2														
\$55 0.0156 0.0000 0.1256 0.0146 0.1451 0.0000 0.4456 0.0000 0.1256 0.0156 0.1451 0.0000 0.4456 0.0000 0.1256 0.0156 0.1451 0.0000 0.4456 0.0000 0.1256 0.0000 0.1451 0.0000 0.4456 0.0000 0.1256 0.0000 0.1451 0.0000 0.4456 0.0000 0.1256 0.0000 0.1451 0.0000 0.4456 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.0000 0.1256 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00											ļ	 			ļ		 	 		}	 		
1656 0.0192 0.0000 0.1250 0.0114 0.1211 0.3070 0.4645 0.1250 0.1114 0.3070 0.4645 0.1250 0.1114 0.3070 0.4645 0.1250 0.1114 0.3070 0.4645 0.1250 0.1114 0.3070 0.4645 0.1250 0.1												 	 					 					
100 0.0103 0.0000 0.1244 0.0102 0.1415 0.3070 0.4545 0.0103 0.1416 0.0111 0.3071 0.4545 0.0103 0.1232 0.0114 0.1404 0.0272 0.4545 0.0103 0.1232 0.0114 0.1404 0.0272 0.4545 0.0103 0.01	858	-0.0150	-0.0005	0.125	0.015	4 0.142	1 0.307	0.484									ļ	<u> </u>					
	950	-0.0152	+0.0006	0.124	4 -0.016	3 0.141				 	 	┼──	├	 	 -	 			1	1	1	 	
SS A0185 A0187 A018 A0187 A018	001	-0.0100	-0.0000	0.124	0 -0.016	9 0,141	1 0.307	1 0.465	1													Ţ	
Geol	862	-0.0164	-0.0010	0.123	8 -0.017 2 -0.018					 	├──	+	 	 	 		 	├─	╀	 		 	
	884	-0.0172	-0.0014	0.122	8 -0.018			3 0.465	0														
	865	-0.0177	-0.0015	0.122	3 -0.019								 	 	 		 	 		 	 	 	
Res .00190 .00271 .01270 .01270 .01280 .0.3281 .0.3287 .0.4899 .	887	-0.0186	-0.0015	0.121	4 -0.020	0,138					 	1	1	 		 							
1870	868	-0.0190	-0.0021	0.121	0 -0.021	0 0.135	6 0.307	4 0.488			 	1	,	 		-	 			 			1
	870	-0,0198	-0.0023	0.120	2 -0.022						1	 						1		1	1		
	871	-0.0201	-0.002	0.119	9 -0.022	6 0.137	4 0.307	8 0.467	8		1	4		 		-		 	4	+		+	1
1674 -0.0213 -0.0030 -0.1163 -0.0245 -0.1364 -0.3077 -0.4684 -0.4777 -0.0031 -0.1163 -0.0224 -0.1367 -0.3076 -0.4689 -0.2027 -0.0032 -0.1176 -0.0224 -0.1367 -0.3076 -0.4689 -0.2027 -0.0032 -0.1176 -0.02264 -0.1367 -0.3076 -0.4689 -0.2027 -0.0035 -0.1176 -0.02264 -0.1367 -0.3076 -0.4689 -0.2027 -0.0035 -0.1176 -0.02264 -0.1361 -0.3079 -0.4689 -0.2027 -0.0035 -0.1176 -0.02269 -0.1361 -0.3079 -0.4689 -0.2027 -0.0035 -0.1165 -0.02269 -0.1361 -0.3080 -0.4699 -0.2027 -0.0035 -0.1164 -0.02275 -0.1344 -0.3080 -0.4699 -0.2027 -0.0038 -0.1160 -0.02275 -0.1344 -0.3080 -0.4699 -0.2028 -0.0038 -0.1160 -0.02275 -0.1344 -0.3080 -0.4709 -0.2028 -0.0038 -0.1160 -0.0226 -0.1330 -0.3080 -0.4709 -0.2028 -0.0038 -0.1160 -0.0226 -0.1330 -0.3080 -0.4709 -0.2028 -0.0038 -0.1163 -0.0228 -0.1331 -0.3082 -0.4705 -0.2028 -0.0038 -0.1163 -0.0228 -0.1331 -0.3082 -0.4707 -0.2028 -0.0038 -0.1163 -0.0238 -0.3082 -0.4709 -0.2028 -0.0038 -0.1146 -0.0228 -0.1331 -0.3082 -0.4709 -0.2028 -0.0038 -0.1146 -0.0228 -0.1331 -0.3082 -0.4709 -0.2028 -0.0038 -0.1146 -0.0228 -0.1228 -0.3085 -0.4716 -0.2028 -0.0038 -0.1146 -0.0238 -0.3085 -0.4716 -0.2028 -0.0038 -0.1146 -0.0238 -0.3085 -0.4716 -0.2028 -0.0038 -0.1138 -0.2035 -0.4716 -0.2028 -0.0036 -0.1138 -0.2035 -0.4716 -0.2038 -0.0035 -0.1138 -0.2035 -0.4716 -0.2038 -0.4718 -0.2038 -0.4718 -0.2038 -0.0036 -0.1128 -0.0036 -0.1311 -0.2038 -0.4718 -0.2038 -0.0036 -0.1311 -0.0038 -0.4728 -0.2038 -0.0036 -0.0038 -0.1311 -0.0038 -0.4748 -0.2038 -0.0036 -0.0038 -0.0038 -0.0038 -0.4748 -0.2038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038 -0.0038	873	-0.0205	-0.002	0.119	1 -0.023	2 0.137 7 0.134				1	<u> </u>	1	 	-	1			<u></u>		1			
676 0.0221 0.0032 0.1176 0.0225 0.1357 0.3073 0.4689	874	-0.0213	0.0030	0.118	7 -0.024	3 0.136	4 0.307	7 0.488	4	\vdash	\vdash			-					T		\vdash		-
677 -0.0225 -0.0004 0.1175 -0.0250 0.1554 0.3079 0.4691 678 -0.0279 -0.0005 0.1171 -0.0264 0.1551 0.3079 0.4693 757 -0.0222 -0.0007 0.1165 -0.0275 0.1347 0.3090 0.4696 759 -0.0232 -0.0003 0.1164 -0.0275 0.1344 0.3090 0.4696 759 -0.0230 -0.00030 0.1165 -0.0275 0.1344 0.3090 0.4700 750 -0.0230 -0.00030 0.1165 -0.0276 0.1340 0.3090 0.4700 750 -0.0230 -0.00030 0.1167 -0.0284 0.1333 0.3061 0.4700 750 -0.0231 -0.0040 0.1157 -0.0284 0.1335 0.3062 0.4700 750 -0.0251 -0.0045 0.1169 -0.0286 0.1335 0.3062 0.4707 750 -0.0251 -0.0045 0.1169 -0.0286 0.1335 0.3062 0.4707 750 -0.0251 -0.0045 0.1149 -0.0286 0.1335 0.3062 0.4707 750 -0.0251 -0.0045 0.1149 -0.0286 0.1335 0.3062 0.4707 750 -0.0251 -0.0045 0.1149 -0.0286 0.1326 0.3062 0.4707 750 -0.0251 -0.0045 0.1149 -0.0285 0.1226 0.3062 0.4707 750 -0.0251 -0.0045 0.1149 -0.0055 0.1226 0.3063 0.4712 750 -0.0251 -0.0045 0.1143 -0.0015 0.1221 0.3063 0.4714 750 -0.0250 -0.0150 -0.0151 0.3061 0.4716 750 -0.0277 -0.0056 -0.1123 -0.0351 0.3064 0.4721 750 -0.0277 -0.0056 -0.1123 -0.0351 0.3064 0.4721 750 -0.0277 -0.0056 -0.1123 -0.0351 0.3064 0.4721 750 -0.0277 -0.0056 -0.1123 -0.0351 0.3064 0.4721 750 -0.0277 -0.0056 -0.1112 -0.0353 0.1304 0.3085 0.4723 750 -0.0277 -0.0056 -0.1112 -0.0353 0.1008 0.4721 750 -0.0277 -0.0056 -0.1112 -0.0353 0.1008 0.4723 750 -0.0277 -0.0056 -0.1117 -0.0350 0.1008 0.4723 750 -0.0277 -0.0056 -0.1107 -0.0350 0.1207 0.3085 0.4723 750 -0.0256 -0.0057 -0.1107 -0.0055 0.1207 0.3085 0.4723 750 -0.0256 -0.0056 -0.1107 -0.0055 0.1207 0.3085 0.4723 750 -0.0256 -0.0056 -0.0056 -0.										 	 	1	 	 	 		-	 	 	1	+	1	1
577 0.0222 0.0037 0.1168 0.0269 0.147 0.3009 0.4098	577	-0.0225	-0,0004	D.117	5 -0.025	0.135	4 0.307	0.469	1														
1,000 1,00	570	-0.0229	-0.003	0.117	-0.026	0 135	1 0.307	0.459		+	 		 	1	1		 	 		 	+	 	+
B81 0.0240 0.0040 0.1190 -0.0280 0.1490 0.3090 0.4700 B82 0.0281 0.0041 0.1197 -0.0284 0.1335 0.3081 0.4703 B83 0.0287 0.0042 0.1183 -0.0285 0.1335 0.3082 0.4707 B84 0.0281 0.0043 0.1149 -0.0284 0.1331 0.3092 0.4707 B85 0.0281 0.0043 0.1149 -0.0280 0.1335 0.3082 0.4707 B85 0.0281 0.0045 0.1148 -0.0280 0.1235 0.3082 0.4709 B87 0.0282 0.0046 0.1142 -0.0285 0.1236 0.3082 0.4709 B87 0.0282 0.0046 0.1142 -0.0285 0.1241 0.3083 0.4712 B87 0.0285 0.0046 0.1142 -0.0285 0.1241 0.3083 0.4714 B87 0.0285 0.0046 0.1153 -0.0310 0.1211 0.3083 0.4716 B89 0.0287 0.0083 0.1193 -0.0315 0.1316 0.3081 0.4716 B89 0.0287 0.0083 0.1127 -0.0285 0.1314 0.3084 0.4716 B89 0.0287 0.0083 0.1127 -0.0285 0.1314 0.3084 0.4721 B89 0.0287 0.0083 0.1127 -0.0283 0.1304 0.3085 0.4721 B81 0.0287 0.0085 0.1112 -0.0331 0.1306 0.3085 0.4721 B82 0.0285 0.0085 0.1113 -0.0381 0.3085 0.4728 B83 0.0285 0.0085 0.1113 -0.0383 0.1304 0.3085 0.4728 B84 0.0285 0.0085 0.1117 -0.0385 0.1287 0.3085 0.4733 B84 0.0285 0.0085 0.1107 0.0385 0.1287 0.3085 0.4733 B84 0.0285 0.0085 0.1107 0.0385 0.1280 0.3085 0.4733 B87 0.0385 0.0095 0.1095 0.0385 0.4735 B87 0.0385 0.0095 0.0095 0.0285 0.4748 B87 0.0385 0.0095 0.0095 0.0285 0.4748 B87 0.0385 0.0095 0.0095 0.0095 0.4749 B87 0.0385 0.0095 0.0095 0.0095 0.0095 0.4749 B87 0.0385 0.0095 0.	880	-0.0236	-0.0032	0.115	4 -0.027	5 0.134	4 0.306	0 0.489	6					1									
585 -0.025 -0.0045 0.1146 -0.0284 0.1335 0.3062 0.4707 585 -0.025 -0.0045 0.1146 -0.0284 0.1335 0.3062 0.4707 585 -0.025 -0.0045 0.1146 -0.0284 0.1335 0.3062 0.4707 587 -0.025 -0.0046 0.1142 -0.0055 0.1246 0.3065 0.4712 587 -0.025 -0.0046 0.1142 -0.0055 0.1241 0.3065 0.4712 587 -0.025 -0.0046 0.1133 -0.0310 0.1211 0.3053 0.4714 589 -0.025 -0.0046 0.1133 -0.0315 0.1314 0.3055 0.4716 589 -0.027 -0.0051 0.1134 -0.0315 0.1314 0.3084 0.4716 589 -0.027 -0.0051 0.1127 -0.0035 0.1314 0.3084 0.4716 580 -0.027 -0.0053 0.1127 -0.0035 0.1314 0.3084 0.4721 581 -0.027 -0.0054 0.1123 -0.0331 0.1306 0.3085 0.4724 582 -0.025 -0.0055 0.1115 -0.0354 0.3085 0.4725 583 -0.025 -0.0056 0.1115 -0.0354 0.3085 0.4725 584 -0.025 -0.0056 0.1117 -0.0355 0.1297 0.3085 0.4723 584 -0.025 -0.0056 0.1107 -0.0355 0.1297 0.3085 0.4723 585 -0.025 -0.0056 0.1107 -0.0355 0.1297 0.3085 0.4735 587 -0.035 -0.0056 0.1107 -0.0355 0.1297 0.3085 0.4735 587 -0.035 -0.0056 0.1107 -0.0355 0.1206 0.3087 0.4735 589 -0.0305 -0.0056 0.1107 -0.0355 0.3087 0.4735 589 -0.0305 -0.0056 0.1056 -0.0376 0.2076 0.4735 589 -0.0305 -0.0056 0.1056 -0.0376 0.2774 0.3085 0.4745 589 -0.0305 -0.0056 0.1056 -0.0306 0.1274 0.3085 0.4745 580 -0.0305 -0.0007 0.1056 0.0006 0.0	681	-0.0240	-0.0040	0,116	0 -0.028	0.134	0 0.300	0 0.470		+	 		-				+		-	ļ	 	·	+
B84 -0.0251 -0.0043 -0.1146 -0.0204 -0.1331 -0.3002 -0.4707	553	-0.0247	-0.004	2 0.115	3 -0.028	8 0.133				1		 	1	1		1		 	1	1			1
585 0.0229 0.0040 0.1142 0.0036 0.1224 0.3063 0.4712 587 0.0226 0.0040 0.1133 0.0010 0.1221 0.3003 0.4714 583 0.0226 0.0049 0.1134 0.0015 0.1318 0.3003 0.4716 583 0.0227 0.0051 0.1130 0.0021 0.1318 0.3003 0.4716 589 0.0227 0.0053 0.1122 0.0023 0.1311 0.3044 0.4718 580 0.0227 0.0053 0.1122 0.0035 0.1311 0.3044 0.4718 582 0.0228 0.0053 0.1122 0.0035 0.1311 0.3044 0.4724 582 0.0228 0.0055 0.1122 0.0035 0.1304 0.3055 0.4724 582 0.0228 0.0055 0.1119 0.0036 0.1304 0.3055 0.4728 583 0.0255 0.0057 0.115 0.0042 0.1304 0.3055 0.4728 584 0.0226 0.0056 0.1119 0.0035 0.1207 0.3058 0.4733 584 0.0226 0.0056 0.1110 0.0055 0.1207 0.3056 0.4733 585 0.0257 0.0056 0.1107 0.0055 0.1207 0.3056 0.4733 587 0.0030 0.0003 0.1003 0.0059 0.1200 0.3057 0.4735 587 0.0030 0.0003 0.1005 0.0056 0.1203 0.3056 0.4743 589 0.0030 0.0003 0.1096 0.0054 0.1223 0.3056 0.4743 589 0.0030 0.0003 0.1096 0.0054 0.1223 0.3056 0.4745 589 0.0030 0.0005 0.1005 0.0057 0.1274 0.3058 0.4745 589 0.0030 0.0005 0.1005 0.0057 0.1274 0.3058 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.1274 0.3058 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.1274 0.3058 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.1274 0.3058 0.4745 590 0.00316 0.0006 0.1005 0.1005 0.0059 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.1274 0.3058 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.0059 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.4745 590 0.00316 0.0006 0.1005 0.0059 0.4745	884	-0.0251	-0.004	3 0.114	9 -0.029	4 0,133	1 0.306	0.470	7		-	-							T		_	ļ	
857 0.0282 0.0048 0.1133 -0.0310 0.1211 0.3063 0.4714 859 0.0230 0.0049 0.1133 -0.0315 0.1316 0.3083 0.4716 859 0.0230 0.0061 0.1130 -0.0321 0.1314 0.3084 0.4716 850 0.0273 0.0053 0.1127 -0.0250 0.1311 0.3084 0.4718 850 0.0273 0.0053 0.1127 -0.0250 0.1311 0.3084 0.4724 851 0.0277 0.064 0.1123 -0.0331 0.1306 0.3085 0.4724 852 0.0285 0.0057 0.1119 0.0058 0.1304 0.3085 0.4726 853 0.0285 0.0057 0.1115 -0.0347 0.1301 0.3085 0.4726 854 0.0285 0.0057 0.1115 -0.0347 0.1301 0.3085 0.4728 854 0.0285 0.0056 0.1171 -0.0345 0.1287 0.3085 0.4735 864 0.0285 0.0056 0.1177 -0.0353 0.1285 0.3085 0.4735 865 0.0287 0.0050 0.1177 -0.0353 0.1285 0.3085 0.4735 877 0.0287 0.0052 0.1103 -0.0584 0.1287 0.3087 0.4735 878 0.0285 0.0055 0.1095 0.0984 0.1287 0.3087 0.4735 879 0.0301 0.0053 0.1095 0.0058 0.1287 0.3087 0.4735 879 0.0305 0.0055 0.1095 0.0058 0.1287 0.3085 0.4743 879 0.0301 0.0005 0.1095 0.0084 0.1277 0.3085 0.4743 879 0.0301 0.0005 0.1095 0.0088 0.12774 0.3085 0.4745 870 0.0305 0.0007 0.1000 0.0377 0.1274 0.3085 0.4749 870 0.0305 0.0007 0.1096 0.0007 0.1284 0.3099 0.4725	886	-0.0254 -0.0254	-0.004	0.114	2 -0.029					 	+	+	+	 	 	+	1	 	+	1	+	1	<u> </u>
625 -0.0277 -0.0051 -0.1127 -0.0252 -0.1314 -0.3084 -0.4718 -0.0051 -0.0277 -0.0053 -0.1127 -0.0252 -0.1314 -0.3084 -0.4721 -0.0277 -0.0054 -0.1127 -0.0255 -0.0131 -0.0386 -0.1308 -0.3085 -0.4724 -0.0251	887	-0.0262	0.004	0.113	8 -0.031	0 0.132	1) 0.300	3 0.471	4	1		1	1			=		T		1		7	
560 -0.0273 -0.0053 -0.1127 -0.00326 -0.1311 -0.3044 -0.4721 -0.00326 -0.1311 -0.3044 -0.4724 -0.00326 -0.00351 -0.1304 -0.00356 -0.1304 -0.00356 -0.1304 -0.00356 -0.1304 -0.00356 -0.1304 -0.00356 -0.1304 -0.00356 -0.1304 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -0.0037 -0.00356 -	868	0.0266	0.004	0.113	-0.031	5 0.131	8 0.30				+	+	+	 	 	+	 	-			+	+	+
Sept -0.0277 -0.0054 -0.1120 -0.0351 -0.1308 -0.3055 -0.4724						6 0.131	1 0.300	0.472			1			1				上	1				1
\$\frac{600}{600} \ \ \frac{1}{2} \ \frac{1}{2} \ \ \frac{1}{2} \ \frac{1} \frac{1}{2} \ \frac{1}{2} \ \frac{1}{2} \ \frac{1}{2} \	891	-0.0277	-0.005	4 0.112	3 -0.033	1 0.130	6 0.300	5 0.472	4		\vdash	-	\vdash]		\leftarrow	1		_	\bot	\vdash	ļ	+
594 -0.0286 -0.0056 0.1111 -0.0240 0.1287 0.3095 0.4730 0.965 0.4730 0.965 0.0287 0.0052 0.1003 0.0053 0.1280 0.3095 0.4733 0.9085 0.0287 0.0052 0.1103 -0.0359 0.1200 0.3097 0.4733 0.9085 0.0297 0.0052 0.1103 -0.0059 0.1200 0.3097 0.4735 0.9085 0.0095 0.0095 0.0095 0.0097 0.1283 0.3093 0.4743 0.9085 0.0055 0.0095 0.0097 0.1274 0.3093 0.4743 0.9081 0.00816 0.0086	823	-0.0281 -0.0285	-0.005	51 0.111 71 0.111	5 4000	0,130		D 0.472			 	+	+	 	 	1	1	 			+	1	1
2027 0.0227 0.0227 0.0222 0.1103 0.0239 0.1200 0.3027 0.4755	894	-0.0289	-0.005	9 0,111	1 -0.034	8 0.129	7 0.30	8 0.473	iO.	=			_							1	$\overline{}$	 	
597 -0.0301 -0.0033 0.1098 -0.0384 0.1295 0.3097 0.4733		-0.0203	0.000	0 0.110	7 -0.03	0.12					1		+				1	1	+	-	+	+	1 '
0.0325 0.0005 0.1005 0.1005 0.0370 0.1225 0.3322 0.4743	897	-0.0301	0.008	3 0.10	9 -0.036	4 0.125	6 0.30	7 0.473	10								1	上	1				
0001 -0.0315 -0.0068 (0.1065 -0.0284 0.1274 0.30022 0.4745 0.30022 0.4745 0.30022 0.4745 0.30022 0.4745 0.40024 0.4745 0.40024 0.4745 0.40024 0.4745 0.40024 0.4755 0.	0.00	-0.0305	1 -0.000	51 0.100	XSI -0.037	O.128	0.30	0.474		-	-				-	+	-	-	 		\leftarrow		+
901 -0.0329 -0.0071 -0.1060 -0.0331 -0.1769 -0.3069 -0.4749 902 -0.0325 -0.0073 -0.1075 -0.0396 -0.1284 -0.3069 -0.4752 903 -0.0331 -0.0776 -0.1069 -0.0407 -0.1285 -0.3069 -0.4755	88	-0.0310 -0.0314	0.006	0.100	0 003	0.127				+	+		+	 	 	1	1	 	+	+	+	1	
903 -0.0331 -0.0076 0,1069 -0.0407 0.1258 0,3069 0.4755	901	-0.0320	-0.007	1 0.100	-0.03	0.120	0.30	0.474	19	1	1		1	1		_	-		1	1	—	ļ	-
904 0,0337 0,0079 0,1063 0,0416 0,1752 0,3059 0,4750		-0.0325	0.007	3 0.10	5 -0.03		6 0.30				+		+		+	+	1		+	 		+	1
		-0.0337	-0.007	0 100	0.04	6 0.12	2 0.30									3							

	A	я		О	E	-	G	H 1	-7-7	7.7	K		м	N	0 1	Р	0 1	R	S	7	U I	V
905					0.1247																	
906	-0.0348	-0.0063	0.1052	-0,0431	0.1243	0.3091																
907	-0.0356	-0.0065	0.1045	-0.0440	0.1237	0.3092	0.4769															
906	-0.0362	-0.0000	0.1038	-0.0452	0.1230	0.3092	0.4773															
909		-0.0004			0.1220	0.3092	0.4778															
911	-0.0382	-0.0099	0.1018	-0.0407	0.1200	0.3002	0.4790															
912	-0.0405	-0.0107	0.0995	-0.0512	0.1190	0.3095	0.4796															
913	-0.0419	-0.0114	0.0961	-0.0533	0.1177	0.3096	0.4805															
914	-0.0436	-0.0122	0.0984	-0,0556	0.1180	0.3097																
915 916	-0 0454	-0.0129	0.0048	-0.0583	0.1144	0.3098	0.4825															
917	-0.0477	-001301	0.0003	400000	0,1129	0.3010	0.4838															
918	-0.0467	-0.01341	0.0933	-0.0600	0.1133	0.3099	0.4833															
919	-0.0443	-0.0125	0.0957	-0.0568	0.1153	0.3098																
920	-0.0424	-0.0119	0.0976	0.0544		0.3093	0.4805															
921 922		-0.0112			D.1193	0.3094 0.3095	0.4797															
923		-0.0104		-0.0498	0.1199	0.3093	0.4791															
924	-0.0389	-0.01031	0.1011	-0.0492	0,1203	0.3091	0.4766															
925		-0.0101		-0.0484	0.1207	0.3090	0.4782	ļ														
926 927		-0.0099 -0.0097		-0.0478 -0.0469	0.1211	0.3069	0.4779	<u> </u>							 							
928		-0.0094					0.4774															
929	-0.0363	-0.0091	0.1037	-0.0454	0,1227	0,3090	0.4771															
930	-0.0356	-0.0087	0.1044	-0.0443	0,1235	0.3090	0,4768							L							ļ	
831		-0.0084		-0.0433	0.1242	0,3091	0,4768	 							 					 		
933	-0.0345	-0.0082	0.1055	-0.0427 -0.0417	0,1245 0,1253	0.3091	0.4783		 	 			<u> </u>	 	 							
934		-0.0077		-0.0410		0.3089	0.4756	t														
935	-0.0337	-0.0088	0.1063	-0.0424	0.1245	0.3002	0.4751															
938		-0.0079																				
937		-0.0068				0.3095	0,4758		·				<u> </u>							 	 	
939		-0.0084				0,3095			·	·				1								
840	-0.0315	-0.0062	0.1065	-0.0377	0.1281	0,3096	0.4754															
941	-0.0311	-0.0059	0.1069	-0.0369		0,3097									 			<u> </u>	<u> </u>			
042		0.0057			0.1290	0,3096		 		 	(<u> </u>					├	-		
943		0.0058					0.4742	 						 	 							
945	-0.0296	-0.0058	0.1102			0.3093	0.4742	-														
948	-0.0290	-0.0055	0.1104	-0.0351	0,1297	0.3063	0,4741															
947	-0.0292	-0.0053	0,1108	-0.0345			0.4739				<u> </u>				ļ				 			
948		-0.0081 -0.0061				0.3087		 	 	 	ļ			├──	 			 			 	
050		-0.0051			0,1200	0.3090	0.4742	 	 	 				 	 			-	1			
951	-0.0288	-0.0044	0.1112	-0.0332	0.1312	0.3100	0,474															
952	-0.0250	0.0048	0.1112	-0.0336	0.1306	0.3096						-			ļ			!	!	!	├ ──	
963		7 -0.0049		-0.0337	0.1307	0.3094	0,473		 	 			ļ	 	 	 	ļ	 	⊢		├	
854		5 -0.0047 2 -0.0045			0.1310	0.3090	0.473	; 			 -		 	 	 					 		
956	-0.025	3 -0.0047	0.1117	-0.0330	0,1311	0.309	0,473		1	1	1				1							
957	-0.0282	2 -0.0048	0.1118	-0.0328	0.1313	0.3095	0.4730	1														
958		0.0038						4	 		 							 	 		ļ	
959		4 -0.0035							 	 	}									 	 	
961	-0.0276	0.0042 8 -0.0042	0 1124	-0.0310	0.1320				 	 	 		-	_	 		 	 		 		
962	-0.0274	41-0,0041	0.1120	-0.0314	0.1323	0.300	0.473	3														
963	-0.0272	21-0,0039	0.1125	-0.0311	0.1325													<u> </u>	 _	 	 	
984	-0.027	1 -0.0037	0.1120	-0.0300	0.1328					 	 		 	├		 	}	 	├ ~~~	├ -		
965	0.020	9 -0.0034	0.1131	-0.030	0.1332				1	 	 			 	 	 			 	 	 	1
967		7 -0.0037							1	1												
968	-0.026	71-0 0040	0.1133	-0.030	0.1326	0.309					1										ļ	
959	-0.026	7 -0.0038	0.1133	-0.030	0.1324	0.300			 	 	 	 			+		 	 	 	+		
970		4 -0.0032	0.1130	-0.029					 	 		 	 	1	 		 	 	 	1	1	1
972	-0.026	2 -0 0031	0.1135	-0.029	0.1337	0.310																
973	-0.025	9 -0.0026	0.1141	-0.0284	0,134				1	1	ļ		ļ	1	4			 	 		 	
974	-0.025	71-0.0023	0.1143	0.0290	D) _ 0,1348	0.310				}	 	 	 		 	 	 	 	 	 	 	
975 976	-0025	Al -0 0027	0.1161	പ ഹയങ	0.134	31 0.310			1	1	1	 		1			t	1				
977	-0.029	61-0.0024	0.1144	II -0.028	() 0.134	0.310	4 0.473	2														
978	-0.025	7 -0.0024	0.114	-0.028	0.134	0.310			1	-	<u> </u>			4	+				ļ	 		
979	-0.025	01-0.0025	0.114	-0.028	0.1340	0.310			 	1	1	 	 	 	+	 	 	 	+	+		
960	-0.025	21-0.0028	0.114	-0.00	0.134	5 0.310			1	1	 	 	 	 	1	1	 	1	1	1		
962	-0.025	8 -0.0026	0.114	-0.028	2 0.134	0.310	2 0.473	0		1												
963	-0.025	6 -0.0025 7 -0.0026	0.114	-0.025	0.134	0.310					-		1						4		 	
064	-0.025	7 -0.0025	0.114	-0.026	2 0.134 1 0.134	7 0.310 8 0.310			-	 	 		 		+	 	+	+	+	+	 	
965	-0.025	7 -0.0024	0114	0.025	0.134	6 0.310	2 0.473		 	 	 	 	 	1	1	1	 	+	1	1	1	
907	-0.025	6 -0.0026	0.114	-0.028	3 0.134	8 _ 0.310	2 0.473	0														
968	-0.025	8 -0.0028 7 -0.0026	0.114	-0.028	0.134	4 0,310	0 0.472							-			1		4		 _	
969	-0.025	7 -0.0026	0.114	0.028	3 0.134	8 0.310			 	 	 			+	+			 	 	+	+	
980	-0.025	5 -0.0027 8 -0.0026	0.114	-0.028	0.134	5 0.310			 	 	 	 	 	 	+	 	 	 	 	+	+	
865	-0.025	7 -0.0027	0.114	-0.025	6 0.134	5 0.310			1	1		1	1	1								
993	-0.025	7 -0.0027	0.114	0.023	4 0.134	4 0.310	2 0.473	0													-	
994	-0.025	7 -0.0024	0.114	-0.028	1 0.134	8 0.310			4	1	-						 	-	4		+	
995	-0.026	-0.0027	0.113	-0.028	0.134	2 0.310 8 0.310			+	 	 	1		 	 	 	 	+	+		1	
998	-0.025	6 -0.0024	0.714	-0.028	0 0.134	8 0.310			 	 		 		+		 	1	1	+	+	1	
995	-0.025	7 -0.0027	0.114	-0.028	4 0.134	4 0.310	2 0.473															
900	-0.025	0 0026	0.114	-0.026	4 0.134	<u>5) 0.310</u>	4 0.473	3						T = T		1					1	1
1000	-0.025	8 -0.0024	0.114	2) -0.026	2 0.134	7 0.310	6 0.473			1	1-			-	-	1	Į	1	 	 		+
1001	1 -0.025	5 -0.0025	1 0.114	51 -0.028	01 _0.134	<u>71 0.310</u>	0.473	DI			L	1	1	1		1		1	· · · · · · · · · · · · · · · · · · ·			